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The
CHEMIST AND DRUGGIST
for RETAILER - WHOLESALER - MANUFACTURER

Established 1859

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SEPTEMBER 24, 1938

Annual Subscription (with
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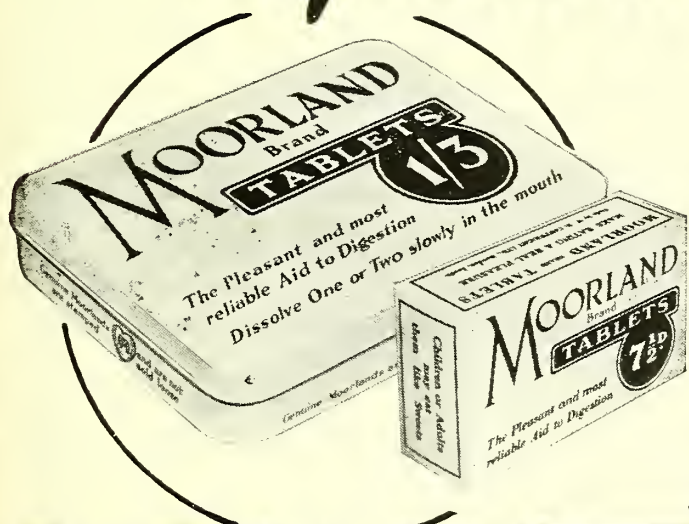
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RUBBER SET

UNBREAKABLE

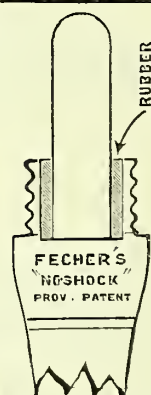
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THE ONLY ASEPTIC AND STERILISABLE ALL GLASS

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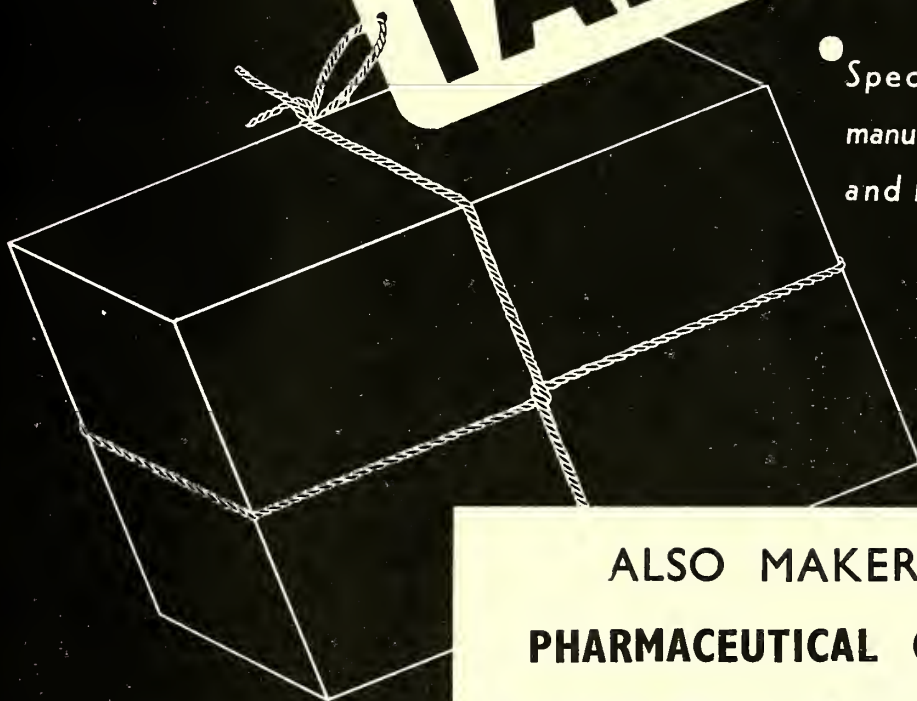
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Private Formula
**PILLS and
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Sugar coated
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Enteric „
Silver „

**BULK OR
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*Let us quote you for
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COX

Estab. 1839
ARTHUR H. COX & CO. LTD.
 of BRIGHTON

*There's money
 in this new*



It's NEW — something that every woman will be eager to buy — a **complete** hair beauty outfit at a popular price — 6d. It consists of the famous Nestlé Colorfoam Shampoo which gives the hair a flower-like fragrance, and Colorinse which perfects the shade as it completes the cleansing. There is an outfit for every shade of hair. Extensive National Advertising commencing in October will send customers to your shop. So order this profitable line now from C. Nestlé & Co. Limited, 465-467 Holloway Road, London, N.7, or your usual wholesalers.

Display and sell this attractive
**NESTLÉ "Colorinse"
 HAIR BEAUTY
 OUTFIT**



SPEND TWO PROFITABLE MINUTES READING THIS

Letter to the Trade

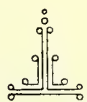
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BURDENATOR, SEDIST, LONDON

TELEPHONE

WATERLOO 5922.



DIRECTORS
J. O. GAMBLES
L. F. DAVIS



J. C. GAMBLES & CO. LIMITED.

*Wholesale Distributors
and Export Merchants*

209/215, BLACKFRIARS ROAD,

London, S.E.1.



CODES
A B C 5TH EDITION.
BENTLEY'S



24th September, 1938.

Dear Sirs,

We are pleased to advise you that we have been appointed distributors of a product which has already achieved a sensational success, for which hundreds of thousands of women have written to the proprietors, which other hundreds of thousands are trying to buy through their local chemists.

We refer to Dermina, the tested and medically approved Reducing Cream, the one sure, safe method for slimming.

Dermina offers you profits of from 1/7 to as much as 8/10 on each sale. Selling prices range from 4/9 to 26/6; your profits are 33 1/3% and if you stock now there is an interesting introductory offer.

Advertising in the National newspapers and in a score of women's magazines is appearing now. May we suggest that you take advantage of this opportunity at once. Write or phone us about our introductory stock offer.

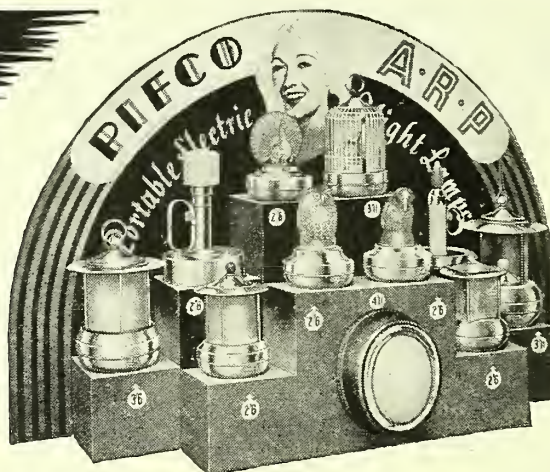
Yours faithfully,

THERE ARE

BIG PROFITS IN

Dermina
BRAND

A **T** **T** **R** **A** **T** **T** **R** **A** **C** **T** **I** **V** **E**
R **E** **V** **E** **N** **U** **E**
P **R** **O** **D** **U** **C** **E** **R**



A.R.P.! The possibility of an emergency emphasises the usefulness of Pifco Portable Electric Lamps. Get this striking Pifco display. It links up with the A.R.P. drive and will stimulate the sales of these artistic, useful, quick-selling Pifco Lamps.

P I F C O

A.R.P.
 Portable
 ELECTRIC
 NIGHT
 LAMPS

Free DISPLAY STAND

Striking display in Pifco colours, with eleven new designs in Pifco Portable Electric Night Lamps, each complete with bulb and battery; retail value of lamps - - - - - **32/9**

NETT TRADE, with stand - **22/11**

From leading wholesalers or direct from:-

PIFCO LTD.
 WATLING STREET, MANCHESTER
 and 58 CITY RD., LONDON, E.C.1

★ BRITISH PACKAGING 1938

"good news that Alf Harrison & Sons, Ltd., have participated in four Award-winning packs in our competition"

"SHELF APPEAL."

★ Once again the quality of our printing is recognised by eminent authorities.

IF YOU DESIRE THE BEST RESULTS FROM YOUR PRINTING, SEND US YOUR NEXT ENQUIRY

Complete set of samples sent to colonies on receipt of postal order 10/- which will be credited on £5 order

ALF HARRISON & SONS

CHEMISTS' AND ADVERTISING PRINTERS
 BURLEY ROAD, LEEDS, 4. London Office: SENTINEL HOUSE, SOUTHAMPTON ROW, W.C.1

THIS CHRISTMAS



A CONSIDERED STATEMENT

AS the opening months of 1938 passed, it became obvious that it was proving a difficult year for retail chemists, due to weather and general trade conditions.

Consequently, we believe that chemists would be more than ever anxious to score with extra turnover on profitable Xmas goods.

No doubt many of our customers have the "jitters" about the state of the trade generally.

Because of good merchandise and vigorous policies we have not felt any recession at Maws. In the century and a quarter's existence we have seen many ups and downs of trade and with the help of our customers we have weathered them all.

We smile at this temporary "recession" to-day. We've gone ahead with our Christmas programme, ignoring any disturbing political facts on the horizon. We've kept our factories busy. Bread-and-butter orders have kept up well, and our Xmas stocks are good.

You will find only sound business confidence if you talk to Maws' Representative.

Our Christmas List describes and illustrates this profitable Christmas opportunity. It will pay you more than ever before to stick to Maws this Christmas. Believe us when we say, "It's a great programme."

AN ANNOUNCEMENT BY:—

MAW



The new Halex advertising reaches right into your customers' homes.

The National Fitness campaign has made them interested in exercise, ready to Halexercise too.

Newspapers, radio, the magazines that are read and re-read, all tell the Halexercise story. The three famous Halex shilling brushes will sell faster than ever. Order more Halex toothbrushes now.

BIGGER CAMPAIGN helps your HALEX SALES

PRESS

The Daily Mirror and Daily Sketch have been added to the newspapers carrying Halex advertisements.

MAGAZINES

Radio Times, Everywoman's, Passing Show—a long list of the magazines people read more than once are used by Halex.

RADIO

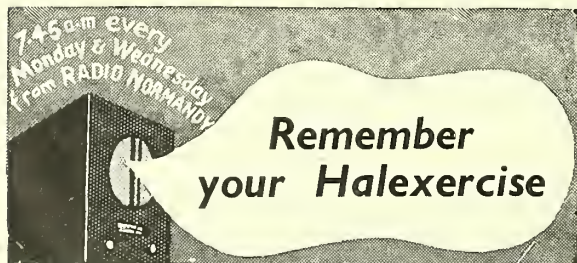
Popular comedian Joe Murgatroyd now puts Halex on the air twice a week from Radio Normandy, wave length 212.6 m.

IT'S DOING GREAT THINGS FOR YOUR SALES OF HALEX TOOTHBRUSHES

Registered Trade Mark

MADE IN ENGLAND

Order from your usual wholesaler or from
The British Xylonite Company Limited, Hale End, E.4



EUCRYL DENTIFRICES

BOUGHT ON DISPLAY TERMS

YIELD -

PROFIT ON
SELLING PRICE

43%

PROFIT ON
BUYING PRICE

75%



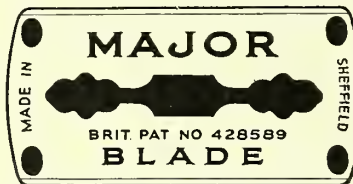
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ON REQUEST



EUCRYL LTD. MANUFACTURING CHEMISTS SOUTHAMPTON

SOMETHING NEW FOR CHEMISTS

Retail
1d.
each



Retail
4
for
4d.

The Slotted "Major" Blade fits
Three-peg and Bar-Type Razors.

SAMPLE AND TERMS FROM—

DOMINION STEEL CORPN., LTD.
FLEET WORKS, QUEEN'S ROAD, SHEFFIELD, 2

INCREASE YOUR SALES BY SHOWING

'DAWN' FACE CLOTHS

"Dawn" Face Cloths are now available in various qualities retailing at 6d. and 9d., with larger super cloths for bath use at 1/- . Made by a special process which renders them ravelproof. Each in transparent wrapper and in assorted pastel shades. Never get slimy. Obtainable from your usual wholesaler.

There's one to suit every customer

Jacques Fabrics Ltd

105/107 Princess St., MANCHESTER

London Agent : G. H. Bolton, Oxford Hse., Falcon Sq., Aldersgate St., E.C.1



The World famous
Shampoo for
Fair Hair...

announces TWO IMPORTANT NEW LINES...



STABLOND
LIQUID SOAPLESS



STABLOND
POWDER SOAPLESS

... and a
SPECIAL BONUS For You!

Made exclusively for fair hair, Sta-blond—the world famous soap shampoo is the only product of its kind which lightens and beautifies natural fair hair without injurious dyes or bleaches. The demand is steady and reliable; the advertising consistent; the 6d. retail price shows you a fair, regular profit.

NOW, in accordance with an insistent public demand, we present—in SOAPLESS form—2 new STA-BLOND Shampoos—LIQUID and POWDER—for ALL SHADES OF HAIR! And to introduce these new STA-BLOND lines, we offer you a SPECIAL BONUS OF 14 TO THE DOZEN, AND 5%. Write for full particulars now.

READY TO PUT ON THE
COUNTER

This small, colourful display is made to carry the free Sta-blond bonus, and comes to you with your bonus parcel.



J. C. GAMBLE & CO. LTD., 211/215 Blackfriars Road, London, S.E.1

RETAIL DEALERS' PRICE LIST (P.A.T.A.)

	Min. P.A.T.A. Retail Price	Price to Dealer
CLEMINITE for a face lotion ...	2/6 tin	1/10½
STALLAX for a shampoo ...	2/6 tin	1/10½
STALLAX (Small) for a shampoo ...	1/6 tin	1/11½
PHEMINOL for a hair remover ...	4/- jar	3/-
PERGOL for a deodorant ...	2/6 tin	1/10½
JETTALINE for clearing the skin ...	3/6 tube	2/7½
ALLACITE of ORANGE BLOSSOM for a face cream ...	2/6 tube	1/10½
BORANIUM for a hair tonic ...	2/6 tin	1/10½
PILENTA SOAP for the complexion	1/- tablet	10d.
MENNALINE for the eyelashes ...	4/- tube	3/-
COLLIANDUM (Solide) for a face tint	2/6	1/10½
COLLIANDUM (Refill for Solide) for a face tint ...	1/6	1/11½
COLLIANDUM (Powder) for a face tint	2/6	1/10½
PROLACTUM for the lips ...	1/- tube	10d.
MERCOLIZED WAX for the complexion ...	2/- jar	1/4
MERCOLIZED WAX for the complexion ...	3/6 jar or tin	2/4
PARSIDIUM an astringent face jelly	1/- tube	10d.
TEKKO PASTE camphor cream ...	2/6 tube	1/10½
SILMERINE hair curling fluid ...	2/6 bottle	1/10½
TAMMALITE hair colour restorer ...	2/6 bottle	1/10½
BICROLIUM for whitening the hands	2/6 jar	1/10½
LIQUID PERGOL to check excessive perspiration locally ...	3/6 bottle	2/7½
STYMOL for oily complexions and blackheads ...	4/- bottle	3/-
COCONOIDS for figure development	3/6 bottle	2/7½
SIPOLITE a hair remover ...	2/- jar	1/6
COMPLEXION POWDER Natural, Rachel 1, Rachel 2, Golden Tan	1/9	1/2
POWDER CREAM Natural, Rachel	1/- jar	8d.
FOUNDATION CREAM ...	9d. tube	6d.
FOUNDATION CREAM ...	1/3 tube	10d.
LIP STICK Dark, Medium, Natural	3/6	2/4
LAVALLA sun tan cream ...	2/6 tube	1/10½

The Products of
Messrs. PARKER, BELMONT & CO.

CLYNOL BERRIES (unstamped) for obesity ...	4/- jar	2/8
SOFT PALERIUM for wrinkles	5/- jar	3/9

A Bonus of 10% is allowed on orders
of £3 for cash with order and dis-
play, or through your wholesaler.

ALL OTHER ACCOUNTS STRICTLY NETT.

Order from Your Wholesaler, or from :
DEARBORN (1923) LIMITED
37 Gray's Inn Road, London, W.C.1

Cable and Telegraphic Address :
JAVEDAN, HOLB, LONDON

Telephone No. :
HOLborn 9669

ROWLAND'S MACASSAR OIL



Regd. Trade Mark

FOR ALL SHADES
OF HAIR
IT PROMOTES THE
GROWTH, GIVES
LIFE AND LUSTRE
AND LONG DE-
LAYS BALDNESS.

A. ROWLAND & SONS, Ltd.
22 Laystall Street, Rosebery Avenue
London, E.C.1

"ODENTIC" PLATE BRUSH

Regd. No. 417637

To Retail at
1/6

Trade 12/9 doz.

From Your Wholesaler

— or —
W. R. SPEER & SON,
215 Dalston Lane,
London, E.8 (EST. 100 YEARS)

WARDONIA
A CLOSE, CLEAN
QUICK SHAVE
EVERY DAY

Your customers will prefer the fine shaving
qualities and long life of Wardonia Barrel-
Hole Blades. Order **NOW**—large range of
display material free. Blades retail 4 for 1/-
and 10 for 2/6. Cost 21/- per box of 120
blades.

Sole Makers : **THOMAS WARD & SONS, LTD.**
Wardonia Works, Sheffield, 1





***“Put me on
your counter.”
SAYS “TILLY”***

“Mummy always says that if it hadn't been for the Curly Top Display-outer on our chemist's counter, I'd never have had Curly Hair.”

“It reminded her of those advertisements she saw, and it even reminds her now when another tube is required.”

Five million advertisements appear every week. Display a quarter dozen “outer” on your counter and make sure that you get all the sales you can.

★ ★ **Curly Top** trains children's hair to curl naturally.
Retails at 1/3 per tube.

★ ★ **Vosemar** makes ladies' hair wave naturally. Retails at 1/6 a tube.

★ ★ **Curly Top Soapless Shampoos**—specially prepared for children, making the hair soft, lustrous and glossy. Enough for 12 Shampoos—1/3 tube retail.

★ ★ **Vosemar Soapless Shampoo**—removes scurf and dandruff, lathers copiously. No rinsing lotions needed. 1/3 tube retail—12 Shampoos.



Here is the new
1/3 doz. Pack.

Put it on your
counter and it
sells itself.

Vosemar Limited
BURY, LANCASHIRE

CUSSONS' 6^D



WHITE  CROSS
Baby Powder

- Packed in attractive $\frac{1}{4}$ doz. display outers
- Quality unchanged
- Trade Discount 33 $\frac{1}{3}$ %

Wholesale enquiries direct to CUSSONS

**THE IDEAL POWDER FOR TOILET
AND NURSERY USE**

CUSSONS SONS & CO. LTD.

KERSAL VALE, MANCHESTER

London Showrooms: Norwich House, Southampton Street, High Holborn, W.C.!



BEAUTIFUL
Glassware

We create and manufacture high quality
glassware for cosmetics and perfumery

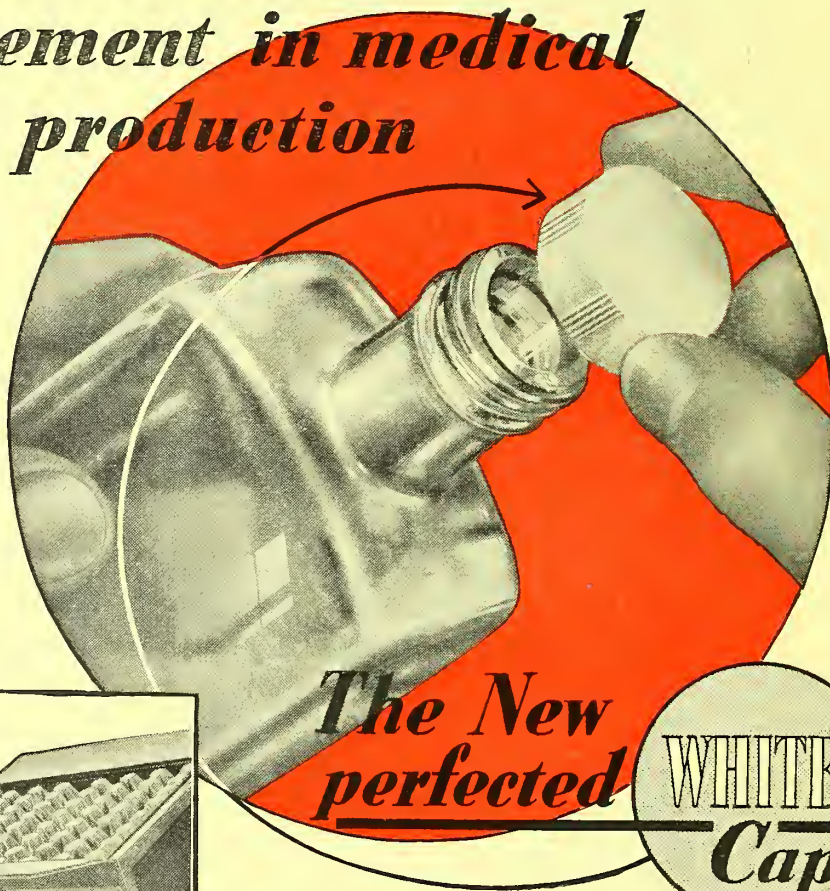
WOOD BROS. GLASS CO. LTD.

ESTABLISHED 1828

BARNLEY

ENGLAND

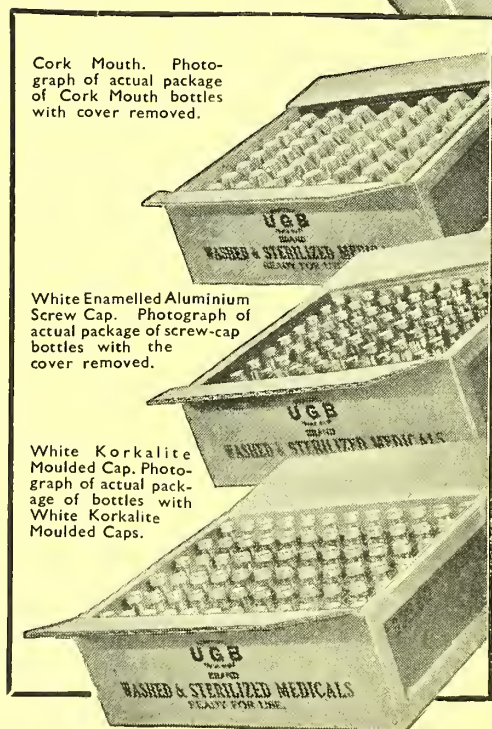
Another scientific achievement in medical bottle production



Cork Mouth. Photograph of actual package of Cork Mouth bottles with cover removed.

White Enamelled Aluminium Screw Cap. Photograph of actual package of screw-cap bottles with the cover removed.

White Korkalite Moulded Cap. Photograph of bottles with White Korkalite Moulded Caps.



At last the strong preference for a Medical bottle with a White moulded cap has been achieved by U.G.B. The cost obstacle has been overcome and U.G.B. technicians have produced a Medical bottle with a perfected White cap manufactured from Urea Powder — tasteless and odourless—fitted composition Cork Liners Resistol faced.

The Cork-Mouth and White Enamelled Aluminium Screw Cap Washed and Sterilized services are unchanged.

UNITED GLASS BOTTLE
MANUFACTURERS LTD

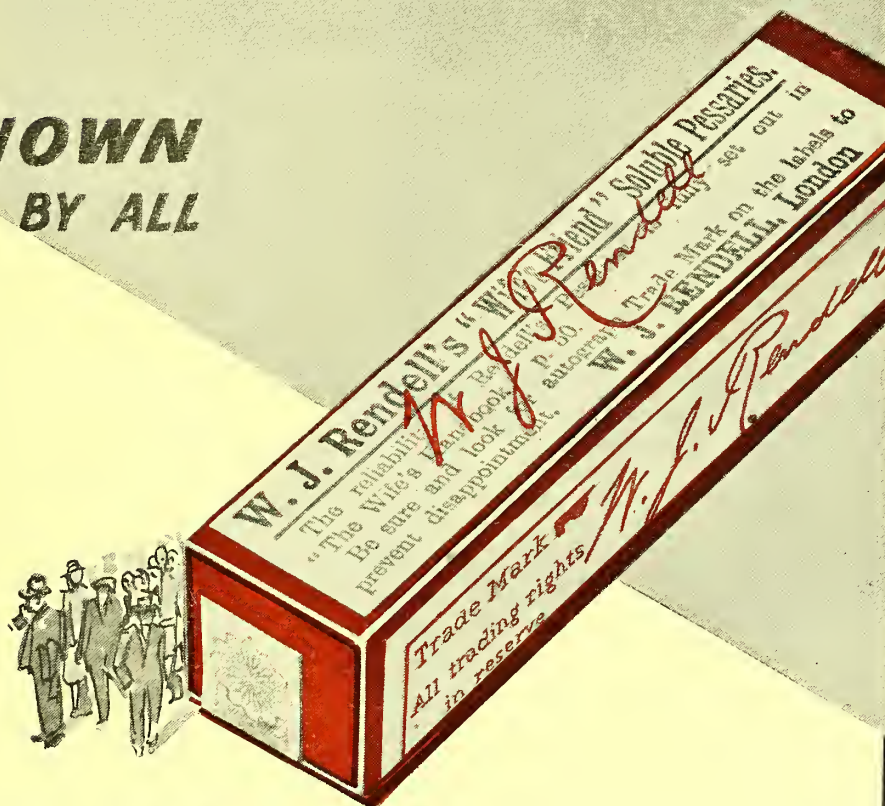
*The largest manufacturers of Glass
Bottles in Europe*

Telephone :
GERRARD 8611 (10 lines)

Telegrams :
UNGLABOMAN, LESQUARE, LONDON

8 LEICESTER STREET, LONDON, W.C.2

**KNOWN
BY ALL**



World-wide use and recommendation have made Rendells known in all civilised countries where the obligations of parenthood are faced and accepted. It is a product not only known but respected by those who from experience have proved that no other contraceptive is more convenient or certain in its action.

A dignified display gives confidence to the regular purchaser and is an attraction to new customers.

W. J. RENDELL LTD

HARDWICK HOUSE
161/5 ROSEBURY AVENUE, LONDON, E.C.1



DO YOU KNOW

THAT ONLY EIGHT OUT OF
SIXTEEN WOMEN IN GREAT
BRITAIN POSSESS A MOULDED
SEAMLESS HOT WATER BOTTLE



?

?

?



**WHAT ARE YOU GOING TO DO ABOUT IT?
SELL MORE RELIANCE, OF COURSE**

SEND FOR DRUG SUNDRIES LIST TO:—

RELIANCE RUBBER COMPANY LIMITED

CREMORNE WORKS, LOTS ROAD, LONDON, S.W.10

TELEPHONE: FLAXMAN 6200 and 4263

TELEGRAMS: DOORSTOP, FULROAD, LONDON

INVEST IN EBE!

Stand No. Q 70 Hair and Beauty Fair

Here are three popular sizes of the famous EBE Bath Powders, the 6/6 and 2/6 "Cellophane" jars and the 6d. silver packets. It will pay you handsomely to stock them. Vastly increased press advertising has started throughout the country, together with editorial publicity support from many national magazines and newspapers, and the demand for EBE Bath Powders will be greater than ever.

The unique triple appeal of EBE Bath Powders, with their colour, foam and perfume, has gained thousands of regular customers during the past six months. Good news travels! During the next few months the demand for EBE Bath Powders will become universal, and the wise retailer is stocking up to-day to be ready for the orders of tomorrow. Get in touch with your wholesaler NOW!

ebe BATH POWDERS

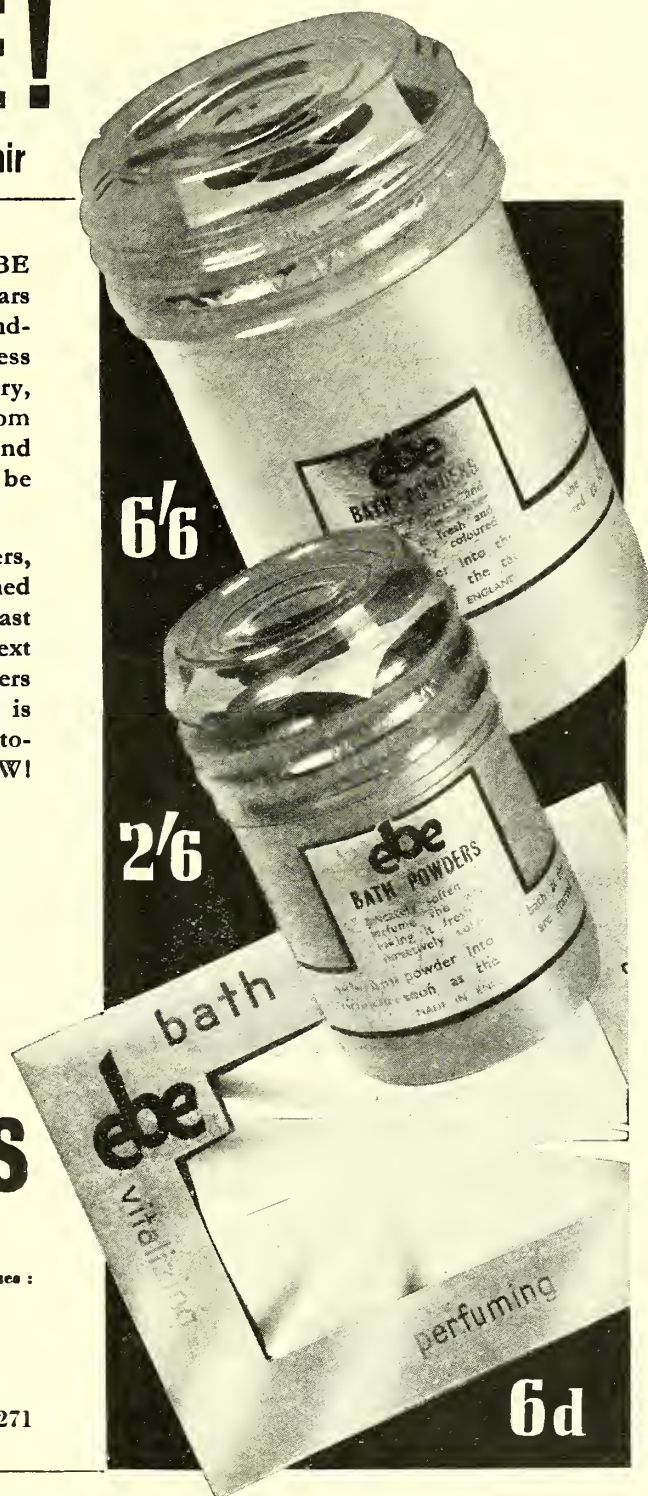
retail at 6d., 2/6, 6/6, 15/6, 25/-, 30/-, 60/-

You are advised to stock immediately the three popular sizes:

6d. - 2/6 - 6/6

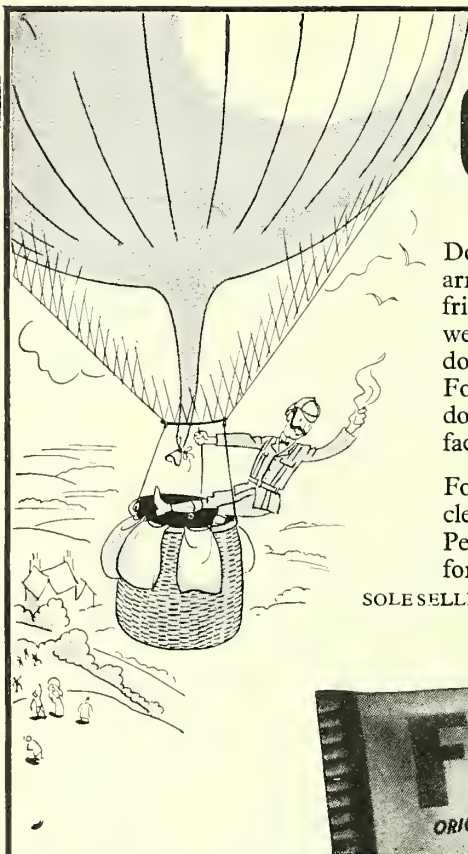
EBE PRODUCTS LTD.,

11 Diana Place, London, N.W.1. Phone: Euston 3271



INCREASED PRESS ADVERTISING AND EDITORIAL HAS NOW COMMENCED. THE FOLLOWING PAPERS WILL BE INCLUDED.

Daily Mail • Daily Express • News Chronicle • Daily Sketch • Daily Mirror
 Sunday Graphic • Sunday Pictorial • Radio Times • Evening News • Evening Standard
 Woman & Beauty • Woman's Fair • Weldon's Ladies' Journal • Modern Woman
 Home Notes • Home Chat • Passing Show, Etc., Etc., Etc.



GOING UP?

Do you want to join the large army of chemists whose dentifrice sales are rising week by week? Then all you have to do is to stock and display Forhans. Sounds simple, doesn't it? Well, in point of fact it *is* simple.

Forhans "Does both jobs—cleans teeth: saves gums." People are realising their need for 'double protection' and

they are buying Forhans wherever they see it displayed. Forhans compelling display material in your shop will remind your customers of all they have read in the Forhans advertisements, and they will buy their Forhans from you—and keep on buying. And that, when you can make as much as 40 per cent. clear profit on every sale, is trade worth fostering!

SOLE SELLING AGENTS: STEMCO LTD., 128, ALBERT STREET, CAMDEN TOWN, N.W.1.



THE

"Lady Nicotine"

Regd.

A popular Ladies' Brush

HARD WHITE
HARD YELLOW

"Lady Nicotine"

W. R. TILBURY & SON

47 Frampton Park Rd., London, E.9

Est. 1880

QUALITY

PRODUCTS

CAPSULE MAKERS TO THE TRADE . . .

Many years of specialised experience are at your disposal. Superlative products at keenly competitive prices. Ask us to quote for your next requirements. Own or standard formulæ compounded.

CROWN CAPSULE CO. CAMPBELL ST., HELENSBURGH, SCOTLAND. 'Phone: Helensburgh 356



There's WEALTH in HEALTH

Sell Health through 'THERMEGA' ELECTRIC PADS AND BLANKETS

The utility, the novelty and the health-preserving properties of 'Thermega' Blankets will appeal to your customers. Sell them sound, healthy slumber and you will reap a wealth of good profit.

Explain the great relief afforded by the comforting dry-warmth of a 'Thermega' Electric Blanket—stress its advantage to invalids, and sufferers from Rheumatism, Neuritis, Influenza and many other ailments.

The 'Thermega' Pad replaces hot-water bottles.

'Thermega'
ELECTRIC HEATING
PADS & BLANKETS

'Thermega' Blankets and Pads will operate on voltages from 100 to 250. Thermostatic temperature control. 12 to 17 hours constant warmth for one unit. Blankets and Pads retail at from 63/- and 31/6 respectively. Single-heat Blanket, specially strengthened, from £4 4s. 3-heat Medical Blankets from £8 10s.

Full details, terms, etc., from

THERMEGA LTD.
51-53 Victoria St., S.W.1
'Phone: Victoria 7864-65-66.

Insist on 'Thermega.' It is vital that these appliances should be made by experienced manufacturers.

Accepted everywhere as the
Modern Method of Sanitary Protection

TAMPAX

WORN INTERNALLY • NO BELTS NO PINS NO PADS



OVERSEAS AGENTS OF TAMPAX LIMITED



SOUTH AFRICA

Associated Proprietary Agencies Ltd.,
Delmark House,
JOHANNESBURG.

RHODESIA

Rhodesian Agencies, Ltd.,
Essex House,
BULAWAYO, S. Rhodesia.

KENYA

P. Phillips & Co. Ltd.,
Victoria Street,
NAIROBI.

HONGKONG

Jardine, Matheson & Co. Ltd.
HONGKONG.

MALTA

Malta Wholesale Drug Co.,
VALLETTA.

INDIA

M. G. Shahani & Co.,
Victoria Road,
KARACHI.

MALAYA

The Federal Dispensary Ltd.,
KUALA LUMPUR,
Selangor, F.M.S.

AUSTRALIA

Hillcastle Pty. Ltd.,
Hillcastle House,
341-5, Kent St.,
SYDNEY.

NEW ZEALAND

Hillcastle (N.Z.) Ltd.,
122, Wakefield Street,
WELLINGTON, C.I.

SOLE DISTRIBUTORS FOR GREAT BRITAIN AND EIRE: SPLENDOR LTD., 5, BEASTMARKET HILL, NOTTINGHAM,
for Tampax Ltd., 10, Bolton St., Piccadilly, London, W.1
(Factory: Northolt, Middlesex)

THE CANNON RUBBER MANUFACTURERS LTD.

Cannon Works, 5a Welbourn Road, Tottenham, N.17

The Cannon Range for 1938-9

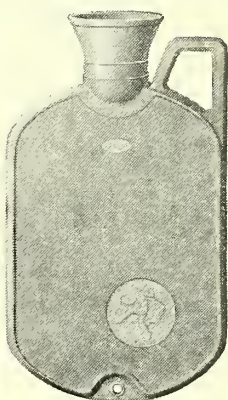
Colours

"DOLPHIN" &
"RIPPLE"

RED, BLUE, GREEN



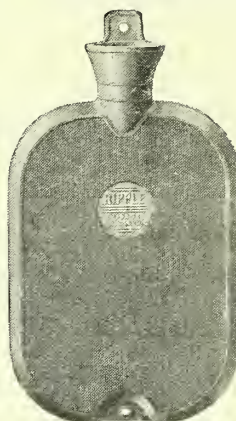
THE DOLPHIN JUNIOR
(2 QUART)



THE DE-LUXE
(3 QUART)



THE BABY



THE RIPPLE
(3 QUART)

Colours

"DE-LUXE"
ORANGE, BLUE, GREEN

"BABY"
PINK, LIGHT BLUE



THE DOLPHIN
(3 QUART)

Every Bottle Guaranteed
ENTIRELY BRITISH MADE

Competitive Prices • Obtainable from your wholesalers

SPETON

THE IDEAL
CONTRACEPTIVE

Highly recommended
by the MEDICAL
PROFESSION

LIBERAL PROFITS
TUBES OF 12
TABLETS 3/6

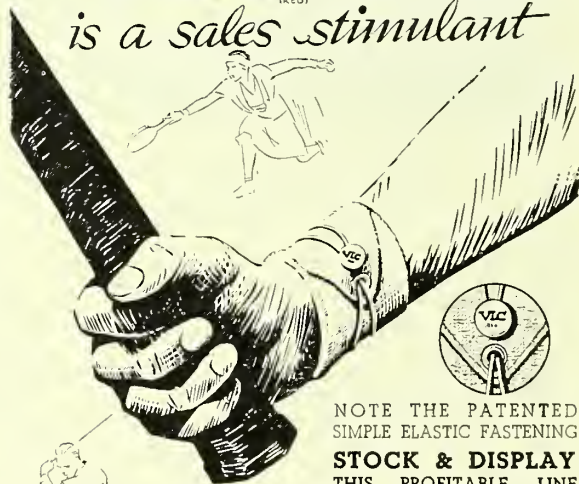
Showcards and
Display Material will
gladly be sent on
request

SPETON—A TEMMLER PRODUCT

Sole Concessionaires for the U.K. and Dominions
COATES & COOPER Ltd.

94 CLERKENWELL ROAD, LONDON, E.C.1

The **VIC** wrist support
is a sales stimulant



NOTE THE PATENTED
SIMPLE ELASTIC FASTENING

STOCK & DISPLAY
THIS PROFITABLE LINE

The most simple to use, easy to
fix fastener on the market—
accept no substitute.

Your customers will insist upon
the original and popular Vic
wrist support, with patented
elastic fastening. Strong, dur-
able, washable and hygienic.
Stocked in Natural, Flesh
and Tan by all leading
Wholesalers.

6 Assorted Colours on
Display Cards.

RETAIL
SELLING
PRICE
9d.
EACH

Sole Manufacturers:

GROUT & CO. LTD., 35 WOOD ST., LONDON, E.C.2

HOT WATER BOTTLES

*that will increase
your sales!*

Dunlop

ALL-RUBBER MOULDED BOTTLE

High pressure moulded from the toughest rubber, this inexpensive bottle can be sold with the utmost confidence that it will give typical "Dunlop" satisfaction. "Cellophane" wrapped. Fixed

Retail Price - 2/11

With Handle - 3/3

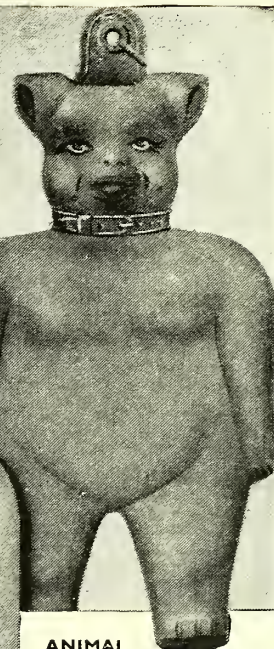
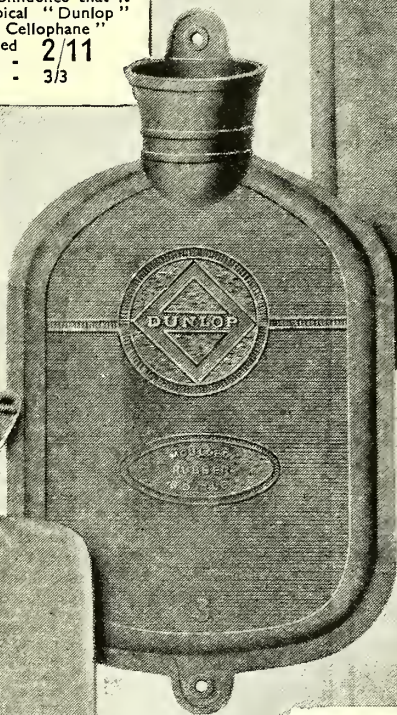
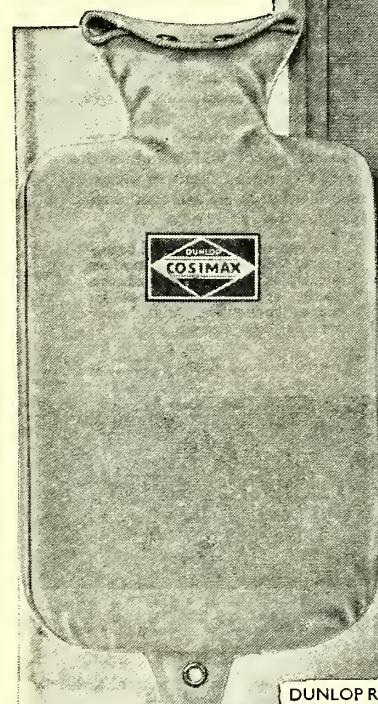
Dunlop

COSIMAX BOTTLE

The modern luxury bottle that gives all-night warmth. Plush covered. Seamless interior made from Latex. Handsomely boxed. Fixed Retail Prices. Cosimax Standard Size - 10/6

Cosimax Senior Size 14/11

Cosimax Foot Warm - 10/6



ANIMAL BOTTLES for Children TEDDY, KITTY, DOGGY, BUNNY, or RED RIDING HOOD.

Real hot water bottles, intriguing to the children, safe and reliable, attractively packed in a box with "Cellophane" window in lid.

Un- 3/11 Covered 5/9
covered in velvet
Red Riding Hood, 4/6, including
red head cover.

Dunlop

HAND-MADE FABRIC INSERTION BOTTLE

Made on the same principle as the world's toughest motor tyres, high pressure moulded with fabric insertion, unrivalled for strength and long life, attractively boxed in Red and White.

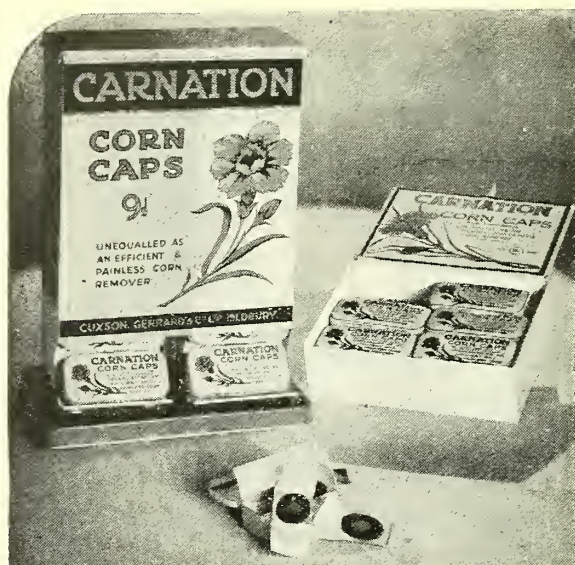
Size	Red	White
6" x 10"	4/11	4/6
8" x 10"	5/6	4/11
8" x 12"	6/6	5/6
10" x 12"	7/6	6/6

Dunlop

HOT WATER BOTTLES

DUNLOP RUBBER COMPANY LIMITED (General Rubber Goods Division), CAMBRIDGE STREET, MANCHESTER, 1

TO BE NATIONALLY ADVERTISED



Carnation Corn Caps

Sales of this popular remedy are restricted to Qualified Chemists. Not only that, a generous margin of profit is shown—Nationally advertised too.

CUXSON, GERRARD & CO. LTD.

Manufacturing Chemists

OLDBURY, BIRMINGHAM

Cold in the Head?

"TOINOCO" MENTHOL IMPREGNATED PAPER HANDKERCHIEFS

provide the most convenient and hygienic treatment for Colds, Nasal Catarrh, Influenza, etc.

From 1st OCTOBER the two packs below will be supplied Impregnated with the finest quality Menthol. These will be distinguished from the untreated packs by a distinctive Red Label.

"TONEX" — 6d. Pocket Size
Trade 4/- doz.; 45/- gross.

"CREPON" — 1/- Utility Size
Trade 8/- per dozen.

These Handkerchiefs are British Made throughout of Superfine Creped Paper, and are produced by the Originators of Paper Handkerchiefs.

Further details of the above and all our Products from your Wholesaler or direct from:—

The TOINOCO HANDKERCHIEF Co. Ltd.

55 Hatton Garden, London, E.C.1

Awarded Gold Seal Certificate of The Institute of Hygiene, London, for Paper Handkerchiefs.

 A black and white photograph showing various stainless steel items: a large funnel, a bucket, a jug, and a smaller funnel. The items are arranged in a group, showcasing the range of products offered.

"WEBSTER'S"

STAINLESS STEELWARE

Specialists in modern equipment for manufacturers i.e., Funnels, Buckets, Jugs, Mixing Containers, Measures, Percolators, Bogies, etc., etc.

Suppliers of Stainless Steel utensils, at prices which enable the user to employ them in place of other metals, as an economical proposition.

The use of Stainless Steel equipment, designed on modern principles, enables overhead costs to be reduced and makes for more convenient and better working conditions.

ISAAC WEBSTER & SONS, LTD.
ABBAY WORKS, KIRKSTALL, LEEDS, 5

Telephone: 51580 Headingley. Telegrams: Isaac Webster, Kirkstall.

The Lambert Pharmacal Company, manufacturers of LISTERINE PRODUCTS, have pleasure in announcing that as from October 1st, 1938, Messrs. J. C. Eno, Ltd., 160 Piccadilly, London, W.1, will act as selling agents for LISTERINE PRODUCTS throughout England, Wales and Eire. They will also take over the Northern Ireland and Scottish territories as from January 1st, 1939.

L A M B E R T P H A R M A C A L C O M P A N Y

*Offices and Laboratories : 38 Standard Road
London, N.W.10*

**HOURLY BY HOURLY MORE PEOPLE
ARE ASKING FOR—**

Samona

MAKES LIFE ANEW

REGD

SAMONA is supplied in two forms : No. 1 for Men (orange tablets) ; No. 2 for Women (brown tablets). Retail price 3/- & 5/- (more than double quantity).

**P. A. T. A.
T E R M S**

**From all
Wholesale
Houses**

The new medical product for Neurasthenia, Nerve Strain, Impaired Vitality, Depression, Inability to Concentrate, General Weakness, Change of Tissues, Hardening of the Arteries, Tired and Listless Appearance, Insomnia, Mental and Physical Exhaustion.

BE READY TO MEET THIS DEMAND

For Showcards, &c., apply to :

SAMONA LTD., 16-18 Charterhouse Street, London, E.C.1

PRECIPITATED CHALK

LIGHTEST—MEDIUM—DENSE.
And All Other Grades To Suit Every Purpose.
Prepared Chalk B.P. and Powdered Talc.

*Phone: Mansion House 7300. Tel. Add.: "Leermore, Phone, London."
A. LEVERMORE & CO. LTD. ABC Codes,
110 CANNON STREET, LONDON, E.C.4. 6th Edition

PILLS • TABLETS • LOZENGES • SUPPOSITORIES • PESSARIES

Produced under the control
of qualified analytical and
pharmaceutical chemists.

Packed under your own
Brand if desired.

Matthews & Wilson Ltd.

Over 40 years specialisation—Established 1894

6-8 COLE STREET, LONDON, S.E.1 Phone: HOP 2147-8

Private formulae and pro-
prietary productions a spe-
ciality. Wholesalers and
regular buyers please write
for special quotations.

Display Cards and Cartons of 1 doz. 6d. Tubes. Display Cartons
of 1 doz. 1/- Tubes. Aluminium Containers 2/6.
APPLIED BEFORE WORK.

Also
ROZALEX
In Tubes
6d. & 1/-

**PREVENTS
CHAPPED
HANDS**

From wholesaler or direct. Show matter
and literature supplied on request to
ROZALEX LTD., CROSS STREET, MANCHESTER

FENTON AGAIN! HAVE YOU SEEN THE CLEVER PUREFECT GREETING PUFFS? FOR XMAS?

Ask Ayrton Saunders, Britton Malcolm, Galloways, Mawdsley, Munro
McLaren, Osborne Garrett, Sangers, St. Dalmas, Southalls, Toogood, etc.
MAKERS TO THE TRADE: FENTON Mfg. Co. Ltd., LONDON, E.C.4

POUDRE TOKALON

THE MOST POPULAR FACE POWDER IN THE WORLD
Always heavily advertised. Easy to sell.
All products guaranteed.
**TOKALON LTD., Chase
Road, London,
N.W.10**

Pacovins In Pots
HAND CREAM 6d.,
1/6 &
3/-

Sole
Distributors: **SCOTT & BOWNE, Ltd., 10 Stonecutter St., E.C.4**

OPTICAL TUITION

FOR THE

S.M.C., B.O.A. and N.A.O. DIPLOMA Examinations

Particulars:—

C. A. SCURR, F.S.M.C., F.B.O.A., F.N.A.O., F.I.O., F.C.O., M.P.S.

50 HIGH STREET, BARNET, LONDON, N.

TREBLES

SHOP FITTERS
SHOP FRONT
BUILDERS

PHARMACY FITTERS for over a Century

549a Lea Bridge Road, Leyton, London, E.10

USED AND SOLD THROUGHOUT THE HAIRDRESSING TRADE

BIOCRIN

**POMADE
SHAMPOO
TREATMENT**

JARS - 21/- & 33/- PER DOZ.
RETAIL - 2/9 & 4/6 EACH

**BIOLOGICAL
OIL HAIR-DRESSING**
BOTTLES 19/- & 34/- PER DOZ.
RETAIL - 2/6 & 4/6 EACH

VINE'S

**222 4 Harrow Rd.
PADDINGTON,
LONDON, W.2
ABErcorn 1172
(2 lines)**

FINEST PURE LOFOTEN — COD LIVER OIL

BRÖDR AARS/ETHER A/S AALESUND, NORWAY

Guaranteed to comply with the requirements of the B.P.
Government Certificate of Control accompanies each shipment

Sole Agents for U.K. (excepting Scotland)

FREUDENTHEIL, SMITH & CO.

21 MINCING LANE, LONDON, E.C.3 Established 1826
Tel. Add.: "Freudenruf." Tel. No.: Mansion House 6600

GLYCERINE

The Purest Quality on the Market. Produced by
THOMAS HEDLEY & CO. LTD., TRAFFORD PARK
Chemically Pure B.P. Pale Straw.

Sole Distributors:
FREDK. BOEHM LTD., 17 Jewry Street, London, E.C.3.
and 140 West George Street, Glasgow.

SKIN DISEASES

THE October issue of THE PRESCRIBER will deal
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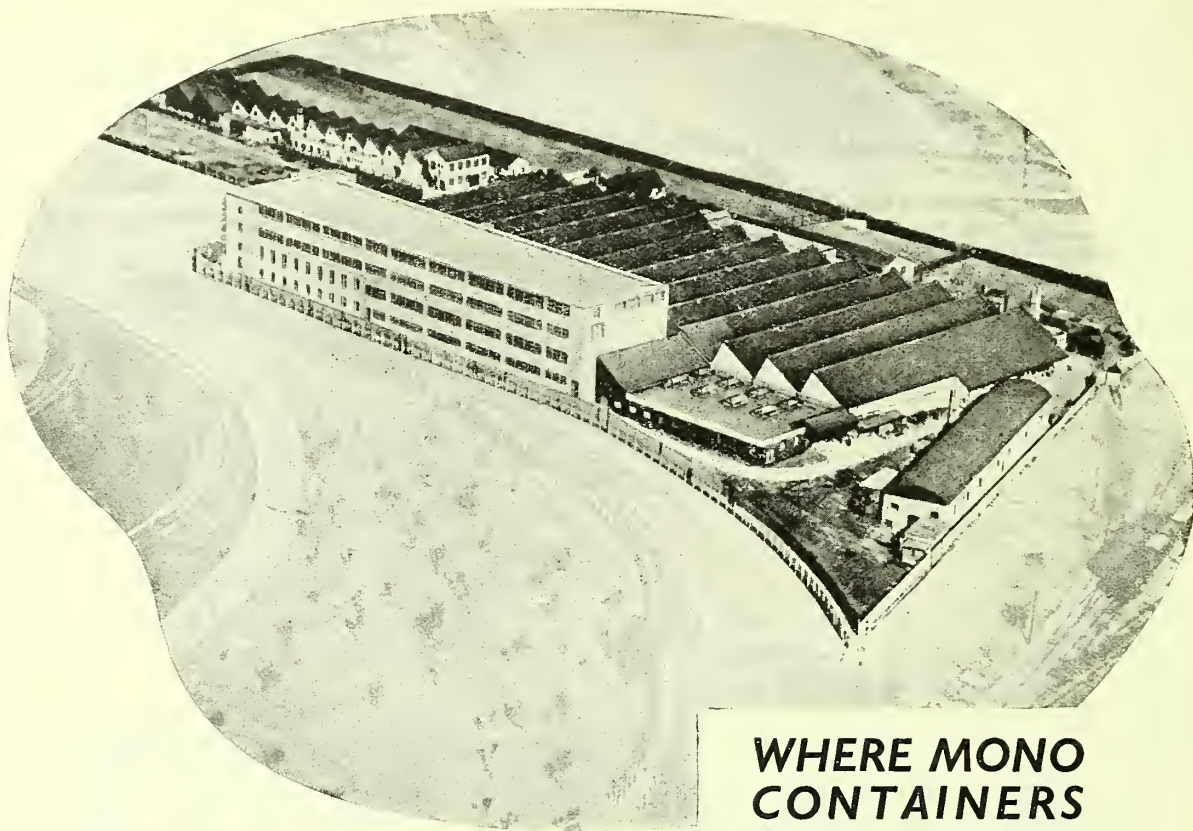
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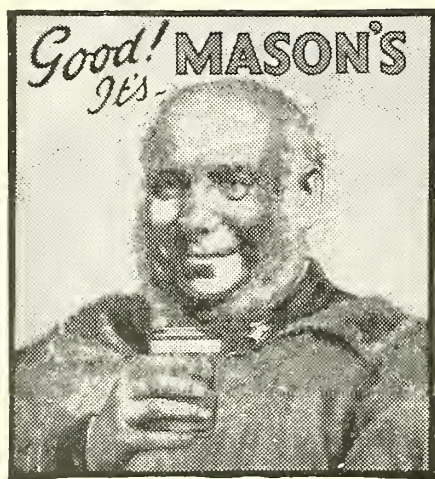
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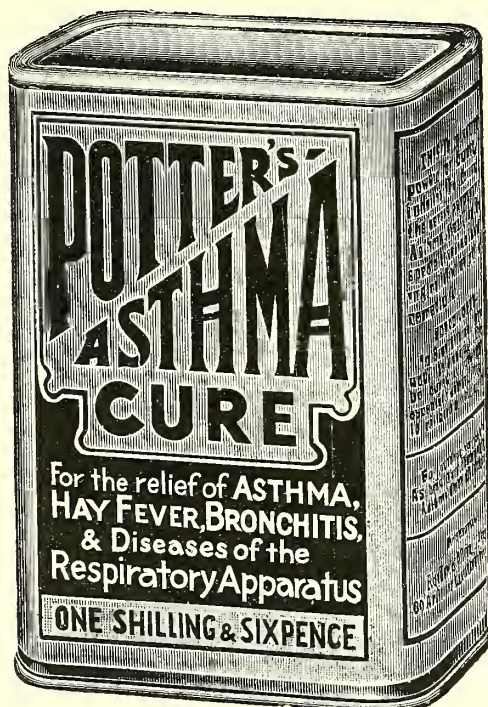
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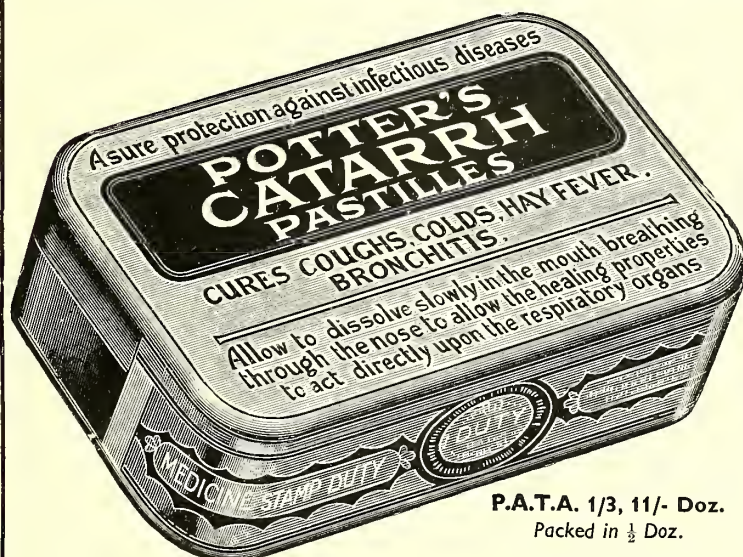


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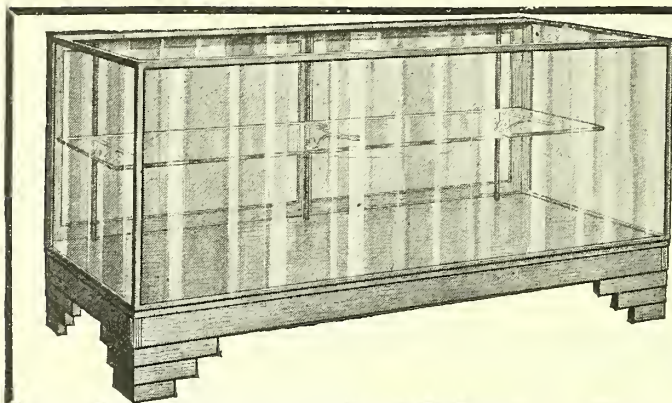
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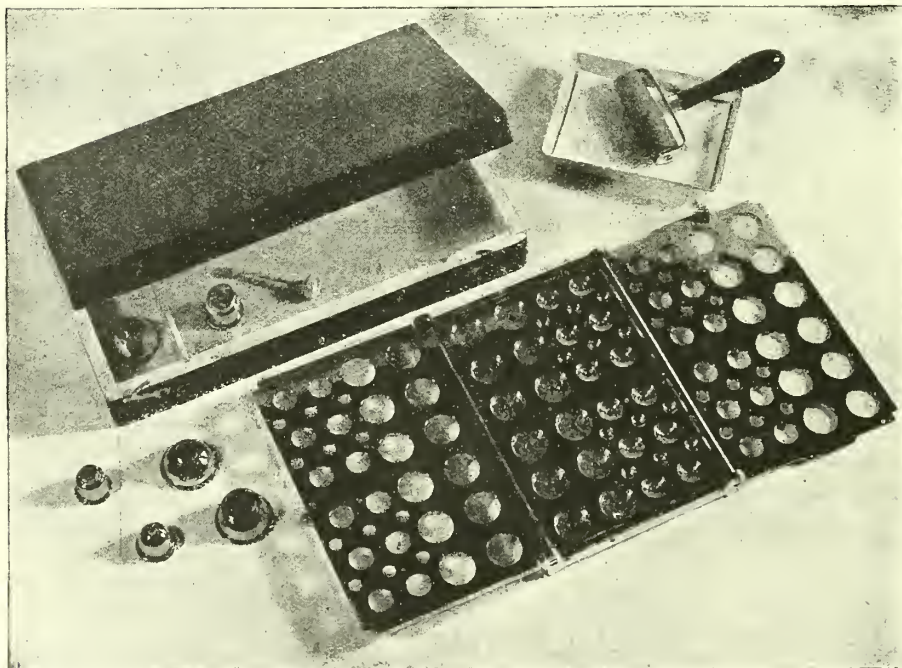
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News of the Week

Pharmaceutical Committees' Conference

A CONFERENCE of representatives of the English and Welsh pharmaceutical committees was held at the Holborn Restaurant, London, W.C.1, on September 21, Mr. S. J. Stearn (chairman of the N.P.U. Executive) in the chair. The main business of the Conference was to consider proposals put forward by the N.P.U. Executive, involving the abandonment of the present N.H.I. contract and its replacement by a new contract on a "no discounting" basis. The importance of these proposals was reflected in the attendance at the Conference, over 250 delegates being present.

Mr. A. R. Melhuish (chairman of the Central N.H.I. Committee) surveyed the circumstances in which it had become possible to approach the Minister of Health for the abolition of "discounting" and to obtain his support.

The resolutions adopted by the Conference were as follows:

1. That the special claim in respect of the 1937 epidemic be withdrawn subject to the present contract being cancelled and a new contract being made on a "no discounting" basis at present tariff rates.
2. That the new contract be antedated to commence on January 1, 1938.
3. That the new contract be for five years.

An assurance was given that although the N.H.I. position might be regarded as stabilised until December 31, 1942, since the new contract was antedated to January 1, 1938, the N.P.U. Executive would not take that view, but would avail itself of every opportunity of insisting upon the inadequacy of the present remuneration, and would do so in any case at the end of three years from the commencement of the contract.

Business Changes

MR. O. JONES, M.P.S., is opening a pharmacy at 16 Cross Lane, Bebington, Birkenhead, Cheshire.

MR. H. K. ROBINSON, M.P.S., has removed from 20 Mill Hey, Haworth, Keighley, to more commodious premises at 53 Mill Hey.

MR. A. H. CROASDALE, M.P.S., 24 Butter Market, Ipswich, has purchased the business of Messrs. Cornell & Cornell, Ltd., 14 Tavern Street, Ipswich, which he has transferred to his own address.

MR. C. J. DIXON, Ph.C., King Street, Penrith, has taken over the business of Mr. F. J. Hatton, M.P.S., Market Place, Appleby, and intends to carry it on as a branch under the management of Mr. Kay.

Marine War Risks Insurance

At a joint meeting of Lloyd's and company underwriters held in London the question of the provision of war insurance on goods transported in deep-sea vessels was discussed, and the

meeting approved decisions as a result of which statements in the following terms relating to merchandise and vessels, and dated September 15, were issued:—

Notice is hereby given to cancel the provision for the inclusion of war risks in all insurances which contain such a provision subject to a cancellation clause. All unclosed risks in respect of interest which has not been loaded on board seagoing vessel prior to expiry of this notice will be subject to the F.C. and S. Clause; but this notice shall not apply to risks definitely closed or declared and valued prior to the expiry of this notice provided that such risks have already been accepted by the underwriters. This notice to take effect as from midnight, September 15, 1938. At the expiry of this notice all war risks must be covered separately in the market.

The War Risks Committee of the Canadian Board of Marine Underwriters has decided to suspend all quotations for marine war risks on cargoes going from Montreal across the Atlantic. New rates will be established on a day-to-day basis.

Proprietary Articles Trade Association

ADDITION TO PROTECTED LIST.—Bristol-Myers Co., Ltd. (distributing agents, Fassett & Johnson, Ltd.), Mum deodorant, 6d., 4s. 3d. doz.; 1 doz. lots, 4s. doz.; 1s. 6d., 12s. doz.; 2s. 6d., 20s. doz.

ALTERATIONS.—Dixor, Ltd. Carriage now paid to retailers on orders value 10s. instead of £2 as formerly. A. F. Sherley & Co., Ltd. From September 12 until October 8 retailers will receive a cash bonus of 5 per cent. on all orders value £1 and upwards. On £2 orders and over, bonus will be allowed in addition to the usual terms of 2½ per cent., plus 5 per cent. for fourteen days' window display. Harriet Hubbard Ayer, Ltd. (correction), No. 26 lemon cream, minimum retail price, 8s. 3d. The minimum wholesale price is 69s. 4d. per doz., and not 81s. 3d. per doz. as previously stated.

DELETIONS.—International Chemical Co., Ltd., Reudel bath cubes. Alfred Senior & Co., Senior's Electric Kleen cloth-ball.

Grocery Exhibition

The forty-second International Exhibition and market of the Grocery and Allied Trades was held at the Royal Agricultural Hall, Islington, London, N.1, on September 17-23. Among the exhibitors were: ALBRO FILLS & ENGINEERING CO., LTD. (filling machines); AUTOMATIC WEIGHING & PACKING MACHINE CO. (weighing machines); W. T. AVERY, LTD. (scales); BENHIL MACHINERY CO., LTD. (filling and packing machines); W. GARDNER & SONS (GLOUCESTER), LTD. (drying, grinding, mixing and sifting machines); W. HAY, LTD. (edible oils); HOBART MANUFACTURING CO., LTD. (scales); JEYES' SANITARY COMPOUNDS CO., LTD. (Jeyes' Fluid, toilet requisites); J. LINGFORD & SONS,

CONTENTS

See p. 325

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Hair and Beauty Fair

The latest ideas in beauty salon equipment, technique and materials, and the newest creations in perfumes and cosmetics, are to be seen at the Hair and Beauty Fair which was opened in the Empire Hall, Olympia, London, W.14, on September 20. The Fair, which is claimed to be the largest of its kind in the world, and is held every two years, will continue until Thursday, September 29. The scope of beauty culture and hair-dressing has widened considerably during recent years, and strong support is given by manufacturers of beauty products to the Fair, as can be seen from the elaborate displays made by some of the leading English, French and American perfumery houses. To give the Fair its necessary amount of publicity daily openings are to be made by stage and film celebrities, while other attractions include hairdressing competitions, beautiful children competitions, hair style of stars competitions, in which the wigs worn by film stars will be exhibited, and the "Lane of Loveliness," where models can be seen wearing authentic historic costumes and headdresses, contrasted in modern make-up and coiffures by experts.

Cardiff

AIR RAID PRECAUTIONS.—The Cardiff Branch of the Pharmaceutical Society, in collaboration with the local medical officer of health, has formulated a scheme under which local pharmacists will co-operate in air raid precautions measures. The local secretary has circularised every proprietor pharmacist in the municipality asking him to enter, in a stock sheet provided, his average stock of dressings and of certain chemicals and drugs. The chemist is not to add his name, but simply to state in which district of the city his pharmacy is situated. The medical officer has divided the municipality into areas, each containing an A.R.P. first-aid post and store for dressings, etc. The man in charge of each post and store will know, in the event of an air raid, to what extent he can rely on obtaining dressings, etc., from pharmacies in the vicinity. If necessary, he will also be able to divert to the pharmacies patients with minor burns, etc., for treatment with tannic acid preparations, lotio, calamin., etc.

Keighley

"BRONTË" PHARMACY DEMOLISHED.—The premises at 13 High Street, Keighley, which were occupied for close on 120 years by the family of Mr. Dawson West, M.P.S., and at which the Brontë family were once customers (see *C. & D.*, July 2, p. 4), have now been completely demolished under the Corporation's improvement scheme. The business is now carried on in North Street (see *C. & D.*, June 25, p. 711).

ROTA.—At a special meeting of the Keighley and District Chemists' Association, recently, it was decided to cancel the present Sunday rota of chemists under contract with the National Health Insurance Committee. A new panel, which came into operation on September 18, was arranged; this includes nine centrally situated chemists. Ecroyds, Ltd., North Street, and John Sneed, North Street, have given public notice that a qualified chemist will be in attendance each Sunday from 6.30 p.m. to 7.30 p.m.

Miscellaneous

CAMERAS STOLEN.—Four cameras were stolen from the pharmacy of Mr. E. W. Geeves, M.P.S., 48 Sturdee Avenue, Gillingham, in a smash and grab raid on August 20.

GAS-PROOF.—A gas-proof demonstration room installed at an Air Raid Precautions dépôt opened at Middlewood Road, Sheffield, recently, was prepared by local pharmacists.

PHARMACY WINDOW SMASHED.—A plate-glass window at the pharmacy of Mr. P. C. Carledge, M.P.S., 41 High Street, Ringwood, was smashed recently by a brick thrown by a labourer.

DISPLAY CLASSES.—Instruction in window-dressing and the display of pharmaceutical products will again be given during the winter months at the Liverpool School of Art. The class for chemists was last year particularly well supported, among the students being about twenty-five assistants from one

multiple firm. Chemists' display classes will be held on Monday evenings and the instructor will be Mr. H. L. Jones.

INQUESTS.—A suicide verdict was recorded at Paddington, London, on September 15, on Grace I. M. Blair, who died from an overdose of a barbiturate, which had been prescribed for sleeplessness.—At Shipston-on-Stour, on September 10, a verdict of "Misadventure, caused by taking an overdose of phenobarbital," was returned on Lilian M. Luckett, who died after taking tablets to induce sleep.

WINDOW-DRESSING COMPETITIONS.—Among the prize-winners in the medicine and drugs section of the charter week window-dressing competitions organised by the Slough chamber of commerce were Stoke & Oyston's Pharmacy, Ltd., and Taylors, Ltd. In the competition for products of the Slough Manufacturers' Association, Mr. H. A. Elliott, M.P.S., was second, and Wood's Pharmacy, Ltd., third.

IN THE COURTS.—At the County of London Sessions, on September 16, Patricia Mallory appealed against a sentence of four months' imprisonment in the second division when convicted of offences under the Dangerous Drugs Acts. The appeal was allowed, and Mallory was bound over for two years.—At the Thames Police Court, on September 17, Fredk. J. Merralls, Ernest J. Wilkins, William J. Daley, Alfred C. Daley, and Arthur J. Merralls were bound over in connexion with the charge of being concerned together in stealing barrels of resin belonging to the Amber Chemical Co., Ltd., Saunders Ness Road, Cubitt Town (*C. & D.*, September 17, p. 278).

Irish Notes

Pharmaceutical Society of Northern Ireland

Nominations in connexion with the annual elections to the Council of the Pharmaceutical Society of Northern Ireland were received on September 18. The four retiring candidates, Messrs. J. E. Connor, J.P. (Newry), James Glendenning (Londonderry), Henry F. Moore (Belfast), and James McDowell (Belfast), were re-elected without a contest.

Pharmaceutical Society of Ireland

There will be no election in respect of the seven vacancies which fall due this month on the Council of the Pharmaceutical Society of Ireland. When nominations closed at noon on September 19 no new candidates were nominated; as all the outgoing councillors offered themselves for re-election they are returned unopposed, and will be formally declared re-elected at the annual meeting of the Society on October 10. The members concerned are Mr. F. J. Fitzpatrick (treasurer), Miss F. M. Flood, Mr. D. W. P. Boyd, Alderman J. F. Costello (Mayor of Galway), Dr. J. A. Mitchell, Sir Thomas Robinson and Mr. M. J. Kieran.

Irish Drug Association

Mr. P. A. Brady (president) was in the chair at a meeting of the committee of the Irish Drug Association, held on September 12. The committee drew members' attention to the requirements of the two Shops Acts now in force that certain information must be exhibited in a prominent position in every shop. The forms required are Nos. S.C.E. 1, 2 and 3, all obtainable at the Government Publications Office, 3-4 College Street, Dublin. Notice must also be sent to the local Civic Guard Sergeant specifying the day of the weekly half-holiday. It was reported to the committee that the Prices Commission is still investigating, many members being approached in regard to chemists' prices. The committee request that any members so approached should communicate with the secretary, giving full particulars of such inquiries. The Association, it was emphasised, should be quoted as the authority from which prices are accepted. Many complaints of price-cutting by non-chemist traders are the subject of present investigations. Any information regarding suppliers to cut-price stores will be welcomed by the secretary.

Belfast

SUCCESSFUL CANDIDATE.—Mr. R. B. Alexander (Jordan, Wilson & Alexander, wholesale druggists) was elected a member of the Belfast Corporation on September 16 at a by-election in Victoria Ward.

DISPENSARY APPOINTMENTS.—A compounder of medicines is to be appointed to the Bray Dispensary Districts, co. Wicklow, by the Local Appointments Commission. Mr. K. Whelan, M.P.S.I., has been appointed locum to Mullingar Dispensary District and Mr. J. Harnett, L.P.S.I., locum to Killarney District Hospital, co. Howe, and to the dispensaries of Killarney.

CIVIC WEEK.—During the civic week celebrations held recently to mark the fiftieth anniversary of Queen Victoria's grant to Belfast of the rank and dignity of a city of the United Kingdom, the College of Technology was thrown open to the public, and the staff and students were in attendance to demonstrate the use of scientific apparatus. In the chemistry department, under Professor H. Wren, M.A., B.Sc., exhibits were arranged to show the examination of foods, drugs, water, soap, fertilisers and other materials; demonstrations were arranged of the principles involved in the bleaching and dyeing of linen and artificial silk, and of the preparation and compounding of medicines and the preparation of drugs from the raw materials; the exhibit also included a botanical section.

Miscellaneous

CUSTOMS DUTIES.—The report for 1935 of the Eire Revenue Commissioners just issued shows that the customs duties levied during that period on imports of toilet preparations and perfumery amounted to £5,165 and of disinfectants £9,809.

LOCAL-GOVERNMENT APPOINTMENT.—Mr. Joseph F. Costello, M.P.S.I., Galway, has been appointed president of the Association of Municipal Authorities of Ireland for the coming year. Mr. Costello, a former president of the Pharmaceutical Society of Ireland, is Mayor of Galway and a member of Galway Harbour Board.

GOLF.—The Irish Chemists' Golfing Society held its final outing of the season at Woodbrook Links, Bray, co. Wicklow, recently, when trophies presented by P. C. Cahill & Co., Ltd.,

Victor Hanna, Erasmic Co., Ltd., and S. Maw, Son & Sons, Ltd., and others were competed for. The Cahill first prize (a breakfast service) was won by Mr. Michael Costello, Ph.C., Marino Mart, Dublin, with 67 net. For the runner-up prize (a Swan writing set) Messrs. J. J. Roche, M.P.S.I., Dublin, and Cyril J. Staunton, M.P.S.I., tied with 72 each. On a cut of the cards the prize went to Mr. Roche. The Victor Hanna cup was won by Mr. M. J. Parkes, M.C.P.S.I., Blackrock; the Erasmic cup by Mr. J. Moran, M.P.S.I.; the Maw cup by Mr. C. J. Staunton; and the United Glass Bottle Company's cup by Mr. A. F. Roche (captain of the Society). The afternoon was devoted to an invitation four-ball game, in which visitors competed. The winners were Messrs. A. D. Davidson and B. Scannell (nine up). For the second prizes Messrs. Brendan Smith, M.P.S.I., and Wm. Bobbie tied with Messrs. G. Murphy and V. O'Connor. On a cut of the card the prizes went to Messrs. Smith and Bobbie. At the close of the contest the captain (Mr. A. F. Roche) presented the prizes, and on the motion of the captain, seconded by Mr. E. McManus, Chapelizod, a vote of thanks was passed to the captain and committee of the Woodbrook Golf Club for the use of the links for the day.

Scottish Notes

Miscellaneous

SCOTTISH REPRESENTATIVE.—Mr. R. H. Gilliland has been appointed East of Scotland representative for Pond's Extract Co., Ltd.

MR. PETER STORRAR, M.P.S., has bought the business of the late Mr. Donald Dewar, M.P.S., Gladstone's Buildings, Quaybrae, Portree, Skye.

MR. JAMES HAMILTON (James Hamilton & Son, manufacturing chemists, Dundee) has been adopted as a candidate at the local municipal elections.

Imperial and Foreign News

Australia

VICTORIAN ORGANISATION SCHEME.—A plan for rehabilitating pharmacy, sponsored by the Federal Council of the Federated Pharmaceutical Service Guild of Australia, is to be put before pharmacists in Victoria. The plan is concerned mainly with distribution and selling. Under it, wholesalers associated with the Guild will market Guild and other lines for the benefit of the profession, the goodwill in the specialties concerned being vested in a company to be formed jointly by wholesalers and retailers. It is intended to extend the plan, if adopted, to other States at a later date.

Canada

DISPENSING CHARGES.—A contributor to the "Canadian Pharmaceutical Journal" (LXXI, 16, 511) summarises the factors to be considered in arriving at prices to be charged for dispensing prescriptions as follows:—Wholesale cost of all materials, including container, label, etc.; general overhead expenses (dispensing department's share of salaries, rent, light, heat, delivery costs, depreciation of equipment and fixtures, insurance, taxes, bad debts, advertising); stock deterioration losses (including necessity to keep in stock items of which the turnover is, for practical purposes, *nil*); net profit; professional services (not negligible even in dispensing the simplest prescription); and professional risks (criminal and civil legal risks).

HEALTH INSURANCE.—The Canadian Government has agreed that the Canadian Pharmaceutical Association should be represented on any committee that may be formed to consider the introduction of Health Insurance legislation. In addition, the Association hopes to form its own committee of pharmacists to draft suitable plans.

Turkey

CONSUMPTION TAX ABOLISHED.—The consumption tax formerly levied by the Turkish Government on all imported and Turkish pharmaceutical and medicinal products was abolished as from June 1.

MEDICAL FACULTY.—A fully equipped faculty of medicine is to be added to the University of Ankara at a cost of 8,500,000 Turkish pounds. Some 700,000 Turkish pounds is to be spent on laboratory equipment and supplies.

United States

PHARMACY WEEK.—The fourteenth annual National Pharmacy Week will take place between October 16 and 22. A silver loving-cup, donated by the Federal Wholesale Druggists' Association and known as the Robert J. Ruth Memorial trophy, becomes the permanent possession of the winner in a special window display contest. The ten next best displays will qualify for Honourable Mention certificates, while numerous other prizes are being awarded by local and State associations.

U.S.P. ANTI-ANÆMIA PREPARATIONS.—The Anti-Anæmia Preparations Advisory Board of the United States Pharmacopœia has announced that it will not, for the present, assign to any preparations of injectable liver extract a strength greater than 15 units per c.c., owing to the possibility of loss during the concentration process of unknown factors that may be of value in the treatment of patients with pernicious anæmia. Unitage will not be assigned until evidence has been accumulated to show that such substances do not change the potency of the extract or cause deterioration in mixtures with other substances. When a Pharmacopœial preparation of liver or stomach is mixed with another preparation, the preparation will not be defined as containing liver extract or stomach equivalent to a certain number of U.S.P. units, unless the potency of the final mixture as such has been established by appropriate clinical tests.

Anti-anæmia unit values have been assigned to the preparations of parenteral solution of liver prepared by a number of manufacturers including Armour & Co., Chicago; Eli Lilly & Co., Indianapolis; and John Wyeth & Brother, Inc., Philadelphia; and to preparations of liver extract made by, among others, National Drug Co., Philadelphia; Sharp & Dohme, Inc., Baltimore; E. R. Squibb & Sons, New Brunswick; Standard Chemical Co., Inc., Des Moines.

Insurance Act Dispensing

Blackburn.—During July 18,133 prescriptions were dispensed in the town at a cost of £902 (including dispensing fees £425). Mr. E. Hindle has been elected chairman of the Insurance Committee.

Rochdale.—The National Pharmaceutical Union's check on the figures of the area Pricing Bureau for the six months ended December 31, 1937, resulted in an agreed error of 1s. 3d. on prescriptions totalling over £4,000.

Ministry of Health Inquiry

Allegations of the unreasonable delay in making up prescriptions were made against a chemist under contract with the Wolverhampton Insurance Committee when Mr. Henry George Herbert Jennings, M.P.S., Worcester Street, was examined at a Ministry of Health inquiry held at the Wolverhampton Town Hall on September 8. It was also alleged that Mr. Jennings had attended a subcommittee meeting in an intoxicated condition. The inquiry was conducted by Mr. Archibald Safford (chairman), Mr. W. Davies, and Mr. A. H. Melhuish. Mr. Jennings denied the allegations. Mr. D. J. Thornton (clerk to the Insurance Committee) stated that Mr. Jennings had been under contract with the Committee for about seven years, and there had been no cause for complaint about his services until recently. Miss Beard, an employee of the Committee, spoke of handing in a test prescription at Mr. Jennings's shop on one occasion at about 11 a.m. Although she called again at

1.30 p.m., she was compelled to wait until late in the afternoon before she could get it made up. A panel patient made a similar complaint, alleging that a prescription was taken to the shop at about 11 a.m. on a Saturday but not made up on that day, although several visits were paid to the shop. A further call was made on the Sunday, when the shop opened in the evening, but the prescription still remained unattended to. A request was then made for its return. This was complied with, and the prescription was then taken to another shop to be dispensed. This caused the patient to be without medicine at the week-end. Miss Hughes (assistant clerk) said that on March 15 Mr. Jennings was called to a meeting of the Pharmaceutical Service subcommittee. She alleged that he was then intoxicated and could not be understood. In her opinion he was not in a fit state to appear before the committee, but did so after he had been interviewed by the chairman and the clerk. The Committee called evidence as to the average time which might be taken in dispensing certain prescriptions which had been tendered to Mr. Jennings, and as to the amount of the business which might be constituted pressure in a "one-man" shop. Mr. Jennings, in his defence, denied the accusations that he was drunk, and said he dismissed the suggestion with the scorn it deserved. He had been engaged in the same business for twenty-one years, and had made up over 140,000 prescriptions without one complaint. Last year he had a serious breakdown in his health, and any delay in making up prescriptions he attributed to that and pressure of work. The finding of the Ministry is to be announced in due course.

Topical Reflections

By Xrayser

The Conference

One of the chief annual events in pharmacy is the receipt of your issue containing the account of the British Pharmaceutical Conference—the Conference, although now a "tied house"—and this year's report, with its generous proportion of pictures, had all the customary interest. I am glad to see that the attendance is described as "almost, if not quite, a record," a fact gratifying, if a trifle embarrassing, to the local committee. Mr. J. Rutherford Hill's long service to the Conference and to pharmacy in general has at last been fittingly recognised by his election as chairman: I gather that in the matter of popularity the Edinburgh meeting was, in theatrical parlance, "his show." For as long as most people can remember, Mr. Hill has been a worker in the interests of the Conference, and in particular in those of its Science Section, where, without any eagerness to promote controversy on the papers submitted, he was unfailingly at hand to sustain a discussion if it showed signs of premature collapse. Like the late Dr. Symes, Mr. A. W. Gerrard and a few other stalwarts of their generation, he could be trusted to add something pertinent, out of a well-stored memory, to what had been said by others; and one never heard him speak unless he had something to say. All who know him—and they are many—will turn hopefully to his address from the chair (pp. 283-87); perhaps the ideal plan is to read your editorial comment on it first (p. 291).

The Chairman's Address

For the most part historical, the chairman's address nevertheless throws out a challenge here and there, notably in this sentence: "Just as the State, in the public interest, limits the practice of medicine to duly qualified medical practitioners, so also should the State limit the practice of pharmacy to duly qualified pharmacists." Mr. Hill appositely points out that our Irish *confrères* have been in advance of us since 1875 in securing the exclusive right to compound and dispense medical prescriptions. To say that we in Great Britain are approaching this desirable condition by way of extension of National Health Insurance dispensing is not sufficient. I do not contemplate with satisfaction the prospect of yet more contract work of this kind, in spite of the dictum that there are not two kinds

of dispensing, true as that may be on another plane. One topic discloses a shade of difference between you and the chairman. He alludes to "the undesirable dispensing doctor" and "the equally undesirable prescribing chemist." But these are not contraries in the sense in which logicians use the term, that is to say, propositions or entities which cancel each other out. A chemist in business does not visit patients, auscultate, take blood pressures and so forth: it is consequently, as you indicate, impossible to set up a true analogy between the two classes. Unless all conversation across the counter other than mechanical sales talk is to be forbidden by law, I do not see how pharmacists can be inhibited from giving advice to their customers; but such advice does not amount to prescribing. A pharmacist with any experience worth mention knows, sometimes before the customer has said a word, when to supply a medicament and when to send his inquirer in search of a medical man. Rather surprisingly, Mr. Hill gave us no quotation either from Burns or from Carlyle: I leave it to others to decide with which of these classics he is likely to be the more in sympathy.

The Science Papers

Your report on pp. 294-300 stops, for an obvious reason, about half-way through the proceedings of the Science Section; the papers so far abstracted are, happily, quite up to Conference standard, and evince a love of research which usually has not long to wait for a practical outcome in improved processes of manufacture or of assay. In the congenial occupation of studying them your readers must discover, as I have, many points of general importance, even in papers that on a first glance may appear forbiddingly technical. I learn, for instance, that the term "liver extract" does not describe a definite substance, and that a good case has been made out for the inclusion of powdered pituitary gland in the next Pharmacopœia. The monograph on the keeping properties of phenol ointment brought to mind a law case in which the defendants successfully pleaded the inevitability of deterioration in this "drug." The remark of Mr. Corfield that "he considered there was no standard in the Pharmacopœia for phenol ointment" is worth bearing in mind for use in case of need. We have to reckon, of course, with the possibility that a court of first instance may decide to fix a standard for itself.

Legal Reports

Pharmacy Act Cases.—At Skegness, on August 30, the magistrate imposed a fine of 20s. on each of two charges brought by the Pharmaceutical Society against Sidney B. Fennel, shopkeeper, Roman Bank, Skegness. The charges were unauthorised sale of acetanilide in Antikamnia tablets and selling the tablets without a label bearing the name and address of seller. The prosecution urged that Fennel owned a large drug store, but neither he nor any person on the premises was a qualified pharmacist. The magistrate took the view that the sale might have been an oversight.—At Caistor Police Court, on August 31, Henry Briggs and Herbert Briggs, trading as Briggs & Sons, were fined 5s. in respect of two charges of selling poisons when not on the list of the local authority.—At Alford, Lincs, recently, George Stow, grocer, was fined 5s. in respect of charges of selling a poison (Jeyes' Fluid) without being licensed for the sale, and for failing to fix his name and address to the bottle.—At Mansfield Police Court, on August 31, Wilfred Sleigh, herbalist, 68 Carter Lane, Mansfield, was fined 21s. on the charge of selling tablets containing ephedrine hydrochloride, not being an authorised seller of poisons; a charge of unlawfully selling ephedrine hydrochloride in Do-Do tablets in a container not properly labelled was dismissed on payment of costs.—At Louth, Lincs, on September 1, John King, nurseryman, was fined a total of 30s. for selling nicotine shreds, contained in an insecticide, without being registered; for failing to label the carton with name and address; for making no entry of sale; for selling from unregistered premises; for selling to an unknown person; and for exposing the poison for sale instead of storing it in a proper receptacle.

Unauthorised Use of Title "Chemist."—At Southend Police Court on September 9 William Desmond Noble, Eastern Esplanade, Southend, was summoned by the Pharmaceutical Society for using in connexion with his business the words "All chemists' supplies," which, it was alleged, were reasonably calculated to suggest that a qualified chemist was employed; also for using in connexion with the sale of goods by retail the title "chemist," not being registered as a pharmacist. Mr. A. C. Castle, prosecuting, asked the Bench to treat the summonses as alternative. Defendant, he said, was apparently determined to use the signs complained of. Defendant stated that the matter raised in the summonses had been dealt with in that Court on September 11, 1936, and in his submission it was not open to the Society to bring another summons; the signs were there when the previous proceedings were taken. Mr. Castle said at the last proceedings the worst of the signs was dealt with; he did not consider it necessary at the time to complain of each individual sign. The chairman pointed out that no evidence was given of these signs, and that the action did not seem quite fair on the Society's part; the signs had existed when they took out summonses with regard to one, but they had not mentioned them. Prosecuting solicitor contended that the Society were entitled to assume that defendant, having been convicted in respect of one sign, would naturally take them all down. Defendant, in evidence, said he was misled by statements made at the previous proceedings; in cross-examination he denied that in November 1937 he promised to remove the signs. The chairman said that in the Bench's view defendant had been guilty of using the word "chemist" in contravention of the Act and he would be fined £5. The other summons would be dismissed. Five guineas costs were granted the Society. In answer to defendant, the chairman said the Bench were prepared to state a case for the Divisional Court.

Passing Off Action.—At the County of London Sessions, on September 14, Mark Posener, general merchant, Catford, pleaded not guilty to three charges of attempting to obtain the sums of 9d. from three different men by false pretences, with intent to defraud (see *C. & D.*, 1938, II, 98). Mr. John Maude appeared as counsel for the prosecution, and Posener was defended by Mr. Mervyn Griffiths-Jones and Mr. R. J. Bushell. Opening the case, Mr. Maude told the jury that although the defendant was charged with attempting to obtain money by false pretences, money actually passed. Because the person who actually parted with the money had been sent to Catford Market, where the defendant traded, in order to

trap him, they were not actually defrauded. The charges related to the defendant passing off Moderne hair cream for Brylcreem. The prosecutors were the County Perfumery Co., who were the manufacturers of Brylcreem, which was extensively advertised and known as good-quality hair cream. Frank Reginald Allcorn, West Wickham, an employee of the prosecutors, together with Edward Baker, Forest Hill, and John Pierce, Catford, who were chemists' assistants, visited the defendant's stall in the Catford Market. When they arrived the defendant was selling a different variety of articles, and he then shouted out that he had Brylcreem for sale. Defendant then said that the shop price was 1s., but his was 9d., and held up a bottle containing a hair cream. Although the bottle was not the same shape as the genuine Brylcreem product, it was very similar. It was labelled "Moderne Hair Cream," and although like Brylcreem it was an emulsion, it mixed with water, whereas Brylcreem would float on the top. The manufacturers of Brylcreem were also careful, from a bacteriological point of view, in seeing that their substance was kept clean, and it was untouched by hand throughout its process of manufacture. Mr. Allcorn, a traveller in the employ of the County Perfumery Co., said that when he was there, the defendant sold Moderne hair cream to a number of people and described it as genuine Brylcreem. In reply to Mr. Griffiths-Jones, the witness said about a couple of dozen bottles were sold while he was there to separate customers. Baker and Pierce gave similar evidence, and Mr. Thomas McLaughlan, analyst, gave particulars of the cream contained in the Moderne bottles. He declared it was inferior, and not clean bacteriologically. The Moderne had a rose type of perfume, whereas Brylcreem was eau de Cologne type. Mr. Norman Wilfred Hill, director of the County Chemical Co., Ltd., the proprietors of Brylcreem, said it had been on the market for about ten years. There was hardly a village hairdresser or chemist who did not have it in his shop. Brylcreem was a registered trade mark. The larger bottles were the nearest in appearance to those sold by Moderne, and there was no actual retail price for it, as it was supplied free to hairdressers. If a person went into a chemist's shop for a large bottle, which contained a quart, if he was the chemist he would charge 3s. 6d. for it. From a distance, the bottles would appear very similar. On his own behalf, the defendant gave evidence and said that he had not been in any trouble before. He traded in the name of "The Mystery Man," but actually there was no mystery about him. He always had three bottles of Brylcreem on his stall, and if asked for it, sold it. In order to boost the Moderne hair cream, he compared the sizes of the two bottles, and told the public he preferred Moderne. They usually purchased it because they got more, and it was 3d. cheaper. Frequently, he bought Brylcreem from a retail shop and sold it at the same price in order to boost his own stuff. Mr. Maude commented on the defendant asserting that the profit on Moderne was better than on Brylcreem when in fact the defendant was unaware of the wholesale price of Brylcreem. Stanley Tolhurst, a Local Government officer, and Ernest Canadine, a capstan operator, both gave evidence that they had purchased Moderne hair cream at the defendant's stall. Emanuel Springthorpe, inspector of Catford Market, in the employ of the Lewisham Borough Council, said that any complaints with regard to trading, cut price, passing off, or alterations, were made to him. There had never been a complaint about the conduct of the defendant. In the event of a complaint, he would take the complainer back to the stallholder and make it in his presence, and would then report the matter to the Market Committee. He had heard the defendant tell the crowd that his stuff was as good as Brylcreem, contained more than four times as much in the bottle, and cost 3d. less. Also, officials of the Proprietary Articles Trade Association attended the market on Fridays and Saturdays and they would have seen the defendant if he was purporting to sell Brylcreem at 3d. under price. Mr. A. W. Cockburn, K.C., the Acting Chairman, told the jury at the conclusion of the evidence that they were entitled, at any time during the defence, to say it would not be safe to convict, and while he heard a short case he invited them to talk the matter over. The jury returned, and the foreman said he had "nothing to say," whereupon the case was adjourned. The hearing was resumed and concluded on September 15, and a verdict of guilty on the three charges was returned. A fine of £10 was imposed.

Company News

P.C. means Private Company and R.O. Registered Office

PHARMACON, LTD. (P.C.).—Capital £100. Objects: To carry on the business of manufacturers of and dealers in lozenges, pastilles, etc. R.O.: Westfields Road, Acton, W.

DAGENHAM PHARMACY, LTD. (P.C.).—Capital £100. Objects: To carry on the business of manufacturing, pharmaceutical and general chemists, etc. Miss Anne V. Tilt, "Seacot," The Old Burgh Road, Skegness, director. R.O.: 454 Lodge Avenue, Dagenham, Essex.

CRAWFORD SMITH & Co., LTD. (P.C.).—Capital £3,000. Objects: To carry on the business of manufacturers and merchants of all kinds of oils, greases, waxes and products derived wholly or partially therefrom. The first directors are to be appointed. R.O.: 2 Derby Street, Colne, Lancs.

CLAUDE AMELIN BEAUTY PREPARATIONS, LTD. (P.C.).—Capital £200. Objects: To carry on the business of manufacturers of essences, lotions, oils, soaps, cosmetics, toilet requisites, etc. Charles T. Gould, 102 Brangbourne Road, Bromley, Kent, director. R.O.: 7 South Street, Greenwich, S.E.10.

CORNISH KAOLIN (1938), LTD.—Capital £100. Objects: To carry on the business of buyers and sellers of china clay, felspar, chemicals and other cognate substances, etc. The first directors (to number not less than two nor more than twelve) are to be appointed. Solicitors: Slaughter & May, 18 Austin Friars, E.C.2.

GILES, SCHACHT & Co., LTD. (P.C.).—Capital £9,000. Objects: To acquire the business of manufacturing and retail chemists carried on by H. F. White, D. H. White and R. White at 27 Regent Street and 50, 51 and 52 Royal York Crescent, Clifton, Bristol, as "Giles, Schacht & Co." (other than the benefit of an agreement made between the said proprietors and Edme, Ltd., dated October 29, 1923). Henry F. White, St. Vincents Rock Hotel, Clifton, Bristol, director.

IMPERIAL CHEMICAL INDUSTRIES, LTD.—Interim dividend of 3 per cent. declared on the ordinary shares.

MONSANTO CHEMICALS, LTD.—Interim dividend declared of 1s. 8d. per share, or 16½ per cent., tax free, on ordinary shares in respect of 1938.

Voluntary Liquidation

Radio Toilet Products, Ltd., 18-20 Urswick Road, Hackney, London, E. The statutory meeting of creditors of the above was held recently at Winchester House, Old Broad Street, London, E.C., when the statement of affairs showed liabilities of £3,256 15s. 7d. The assets totalled £850, from which had to be deducted £51 10s. for preferential claims, leaving net assets of £798 10s., or a deficiency, as regarded the creditors, of £2,458 5s. 7d. The issued capital was £1,000, and so far as the shareholders were concerned there was a deficiency of £3,458 5s. 7d. A deficiency account was also submitted, which disclosed that as at August 1, 1935, there was a surplus of assets over liabilities of £302 7s. 5d., and since that date the gross profits had aggregated £6,330 8s. 4d., whilst a difference in the books of £67 2s. 5d. had been written off. Those items, together with the deficiency in the statement of affairs of £3,458 5s. 7d., made a total of £10,158 3s. 9d. to be accounted for. That was explained by the expenses of carrying on the business since August 1, 1935, £9,353 6s., and the depreciation written off the assets in the statement of affairs, £804 17s. 9d. It was reported that the company was formed in June 1932 with a nominal capital of £1,000, all the shares of which were issued for cash and fully paid up. The company took over a business carried on since 1928 under the style of Radio Soap Co. It was stated that the liabilities included an amount of £1,146 due to Mr. J. Brandon, a director of the company, but that claim would be withdrawn if the creditors confirmed the voluntary liquidation of the company. Mr. Brandon would also discharge the amount of £186 due to the bank and make no claim against the estate in respect of that sum. The shareholders had previously passed a resolution nominating Mr. D. E. Gibbs as liquidator of the company, and the creditors decided that this appointment should be confirmed.

Trade-Mark Applications

The figures in parentheses refer to the classes in which the marks are grouped. A list of classes and particulars as to registration are given in "The Chemist and Druggist Diary and Year-Book," 1938, p. 302.

(From "The Trade Marks Journal," September 7, 1938)

SCHEDULE III

"JANE SEYMOUR" and design of oval round a woman; for cosmetic pads of cottonwool covered with cotton gauze (25). By Jane Seymour, Ltd., 21 Grosvenor Street, London, W.1. B145,862/145,863. (Associated.)

"BONTI"; for all goods, excluding soap (48). By Selfridge Provincial Stores, Ltd., 300 Oxford Street, London, W.1. 586,580.

"GIFY 'NEWPUF'" facsimile writing with design of sun's rays; for powder puffs (48). By Cecilia Taylor, 31 Portland Place, London, W.1. 586,368.

SCHEDULE IV

"MUCAMAX"; for intestinal evacuants (5). By The British Plansil Co., 41 Crichton Road, Carshalton, Surrey. 600,029.

APPLICATION AMENDMENTS

The specification for "VANOSOL," Class 3, No. 581,628, by Vasenolwerke Dr. Arthur Kopp K.G., has been amended to "Creams, powders and oils, all being medicated preparations for human use."

The specification for "MANNEQUIN," Class 48, No. 585,214, by Anphyl Products, has been amended to "Face creams (not medicated)."

(From "The Trade Marks Journal," September 14, 1938)

SCHEDULE III

"NEOBOR"; for photographic chemicals (1). By Borax Consolidated, Ltd., Regis House, King William Street, London, E.C.4. 585,524. (Associated.)

"BROMEGA"; for photographic chemicals, films, papers, etc. (1) (39). By Kosmos Photographics, Ltd., Pixmore Avenue, Letchworth, Herts. 586,540/1. (Associated.)

"WEYCHROME"; for sensitised photographic plates and films (1). By Photoscope, Ltd., Weybridge Trading Estate, Weybridge, Surrey. 586,843.

"COUNTY" and design of sanctuary knocker of Durham Cathedral ("County" disclaimed); for photographic, agricultural and veterinary chemicals, etc. (1) (2). "DUNELM" and same design ("Dunelm" disclaimed); for perfumery (48). By Holiday & Co., Ltd., City Mills, Claypath, Durham. 587,168/9/7. (Associated.)

"HIP"; for insect-destroying powders (2). By The Hygenol Co., Ltd., 75 Low Road, Hunslet, Leeds. 583,910.

"FOUDREX VAINQUEUR DES MITES" within circle (words "Vainqueur des mites" disclaimed); for insecticides (2). By W. Lowe, 4 Park Place, St. James Street, London, S.W.1. 584,317.

"PROVIRON"; for medicinal hormones for human and veterinary use (2) (3). By Schering, Ltd., 185 High Holborn, London, W.C.2. 586,425/6. (Associated.)

"ENOULAN"; for veterinary medicines, animal- and plant-destroying chemicals, disinfectants, food preservatives and medicinal chemicals, excluding headache and nerve tablets and soap (2) (3). By Oelwerke Noury & Van Der Lande G.m.b.H., Industriestrasse 6, Emmerich am Rhein, Germany. 583,620/30. (Associated.)

"LYOVAC"; for medicinal chemicals (3). By Sharp & Dohme, Ltd., 76 City Road, London, E.C.1. 585,198.

"TABLATON"; for medicinal chemicals (3). By The Firm Johann A. Wulffing, Friedrichstrasse 231, Berlin, S.W.68. 585,498.

"ENMAL"; for medicated antiseptic preparations (3). By Micron Laboratories, Ltd., 17 Wells Street, London, W.1. 586,481.

"VIADOL"; for medicinal preparations for treatment of vitamin deficiencies (3). By Abbott Laboratories, Ltd., 388 St. Paul Street, West, Montreal, Canada. 586,472.

"ALZAM" with design of building and bird, and motto; for all goods, excluding dentifrices and preparations for the scalp (3). By A. M. Hogarth, 143 Golders Green Road, London, N.W.11. 586,678. (Associated.)

"SUMMER MORN"; for all goods (48). By Ava, Ltd., 9 Park Hill, London, S.W.4. 585,598.

"RADDIM"; for all goods (48). By R. Hovenden & Sons, Ltd., 29 Berners Street, London, W.1. 586,759.

SCHEDULE IV

"LATENAC"; for all goods (2). By Pinchin, Johnson & Co., Ltd., 4 Carlton Gardens, London, S.W.1. 600,292.

"OVALCALINA"; for preparations for treating complaints in women (5). By N. N. Kouznetsoff, 66 Boulevard Exelmans, Paris 16. 600,164.

Pharmaceutical Society of Ireland

Council Meeting

THE monthly meeting of the Council of the Pharmaceutical Society of Ireland was held on September 13, when the following members of the Council were present: Messrs. F. J. Fitzpatrick, D. W. P. Boyd, M. J. Parkes, J. K. Whelehan, P. Brooke-Kelly, T. C. Scott, J. A. O'Rourke, J. Gleeson and Miss F. M. Flood. At the outset of the proceedings Mr. FITZPATRICK said: "The vice-president (Mr. Cahill) is absent on holidays. The president (Mr. Hickey) is representing Irish pharmacy at the British Pharmaceutical Conference in Edinburgh and has asked me to preside to-day. With your permission I will take the chair." Mr. Fitzpatrick then presided at the meeting.

Apologies for inability to attend were received from Mr. Cahill, Mr. M. Kiernan, Mr. P. J. Fielding and Mr. C. J. Cremen.

SCRUTINEERS APPOINTED

On the motion of the CHAIRMAN, seconded by Mr. BROOKE-KELLY, Messrs. J. Gleeson and M. J. Parkes were appointed scrutineers of the ballot in connection with the forthcoming elections.

LAW CASES

MR. JOHN J. GAYNOR, law adviser, reported to the Council on the result of law proceedings taken in the cases of T. F. Phelan, W. Morrissey and W. F. Murphy, Aughrim; Monica Duff & Co., and John Hannon, Ballaghaderreen; J. Lawler, J. C. Cooney & Sons, Kells; and Messrs. White, McDermott and Conway, Naas.

REGISTRATION ITEMS

Mrs. H. Brady, L.P.S.I., Mrs. N. F. Wrixon, L.P.S.I., and Mr. J. Campbell, assistant wrote submitting marriage certificates and requesting change of names in the Register. The applications were granted.

The following changes of address were notified:—Mr. R. D. Arnold, M.P.S.I., from Virginia, co. Cavan, to 40 Main Street, Arklow, co. Wicklow; Mr. L. P. Johnson, M.P.S.I., from Curry, Ravenscroft, co. Sligo, to 30 Washington Street West, Cork; Mr. I. M. Fisher, L.P.S.I., from c/o Mrs. E. Glover, Koonor, Glenburn Park, Cayehill Road, Belfast, to 68 Humboldt Street, Brooklyn, New York, U.S.A.; Mr. T. J. McDermott, L.P.S.I., from c/o O'Brien's, Middleton, co. Cork, to The Pharmacy, Kilmallock, co. Limerick; Mr. R. Kingston, L.P.S.I., from The Manse, Raphoe, co. Donegal, to 1 River View Terrace, Glenbrook, Passage West, Cork; Mr. T. P. P. Walsh, L.P.S.I., from Medical Hall, Mountrath, to The Medical Hall, Main Street, Ballinasloe; Mr. W. A. Ryan, L.P.S.I., from 234 Clonliffe Road, Dublin, to 34 The Rise, Hampstead Hill, Glasnevin, Dublin.

Preliminary registration was granted to the following, who submitted matriculation certificates:—Misses E. T. Collins, F. E. Hughes, M. McSweeney, D. M. O'Mahony, M. E. O'Neill, and Messrs. P. T. Butler, N. Farren, A. J. Morrin, E. Power and M. G. Brogan.

An application by Dr. J. V. McLoughlin, who submitted an L.A.H. certificate and desired registration as a pharmaceutical chemist, was granted.

REPORTS FROM COMMITTEES

The reports of the House, Law, and Certificates and Declarations Committees were submitted and approved. The report of the last-named Committee mentioned that thirty-six candidates had entered for the forthcoming Assistants' examination. The examiners reporting on the recent Licence examination stated that thirty candidates entered, of which number seven passed and one candidate was referred in chemistry. For the Assistants' examination thirty-six entered, four withdrew, and eighteen passed.

THE REGISTRAR (Mr. J. J. Kerr) reported on the deaths of Messrs. R. H. Armour, M.P.S.I., W. J. Mooney, M.P.S.I., and H. Lancashire, L.P.S.I.

Miss M. Costello, Miss M. Gunning and Mr. A. Walsh were elected to membership of the Society.

The following were nominated for membership:—Mr. P. V.

McGahon, 18 Faughart Terrace, Dundalk; Mr. F. E. Smith, 18 Water Street, Newry; and Dr. J. V. McLoughlin, Swanlinbar, Belturbet, co. Cavan.

The Licence certificates of the following were signed and sealed:—Miss Agnes Ahern, Edward F. Lee, Timothy Joseph Lynch, Philip Patrick McArdle, Miss Ellen Teresa Mullin and Francis Eugene Smith.

BENEVOLENT FUND DANCE

At the conclusion of the ordinary business of the Council a meeting of the Benevolent Fund Committee was held, at which a grant to a deserving case was passed for payment. It was stated at a meeting that it was proposed to hold a dance in aid of the Fund this season, and that a meeting of the Dance Committee was being summoned to make the necessary arrangements. In view of the great success of last year's dance for the Fund, members of the Committee expressed their pleasure at the proposal to hold a similar event this year.

New Books

The Register of Fellows, Associates and Students of the Institute of Chemistry of Great Britain and Ireland, 1938. 8½ in. by 5½ in. 5s. The Institute, 30 Russell Square, London, W.C.1. [The register contains particulars of the occupation and branches of work of Fellows and Associates who have supplied such information, and includes the names of over 7,000 Fellows and Associates, and over 800 Registered Students. An alphabetical index of Fellows and Associates is given at the end of the register for reference purposes.]

Jordan, H. W. *Converting a Business into a Private Company.* 7½ in. by 4½ in. Pp. 52. 1s. 6d. Jordan & Sons, Ltd., 116 Chancery Lane, London, W.C.2. [A twelfth edition of this book has just been published, and a new section summarising the advantages to be gained by converting a business into a private company has been added. The following points are dealt with:—Formation of the company, cost of formation, memorandum of association, articles of association, transfer of business to company, further documents, obtaining additional capital, duties and fees payable.]

Morgan, Sir G. T., D.Sc., F.R.S., and Pratt, D. D., M.A., Ph.D. *British Chemical Industry. Its Rise and Development.* 9½ in. by 7½ in. Pp. 387. Illustrated. Edward Arnold & Co., 41 Maddox Street, W.1. [The magnitude of the task of surveying the British chemical industry will readily be appreciated by anyone possessing the slightest insight into the extensive field which must be considered, and no single volume that attempted such an undertaking could possibly include more than the barest outline of any one section of the industry. In their new publication, Morgan and Pratt—both of the Department of Scientific and Industrial Research—have made an important contribution to the works on chemistry, and their efforts in compiling it have resulted in a volume which is presented with uniformity, explicitly illustrated, and written with a clarity which makes for simplified reading or speedy reference. The book will be valued both by lecturers and students in general chemistry. Much assistance has been obtained in the compilation of this work from the Association of British Chemical Manufacturers, and from leading chemists and industrialists possessing some specialised knowledge of the particular branch of the industry concerned. Throughout the book appear plates on art pages, showing views of chemical works and types of large-scale plant associated with the various chemical industries. No book on industrial chemistry would be complete without some reference to coal and its many by-products. Accordingly this subject has received full consideration in the present work, and modern developments in the associated industries are described. In an epilogue the general aspects and scope of the British chemical industry are discussed, and tables are given which show the national importance of the industry as regards monetary value and provision of employment, together with a list of exports of manufactured chemicals from the United Kingdom.]

CHEMISTS' EXHIBITION, 1938



BAYER PRODUCTS, LTD.



UNITED GLASS BOTTLE MANUFACTURERS, LTD.



MCCLURE, YOUNG & CO., LTD.



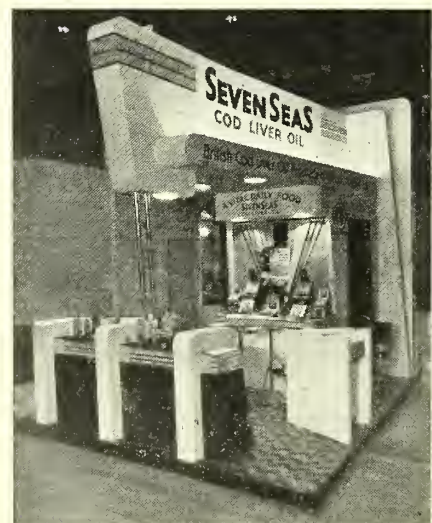
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Chemists' Exhibition

Opening

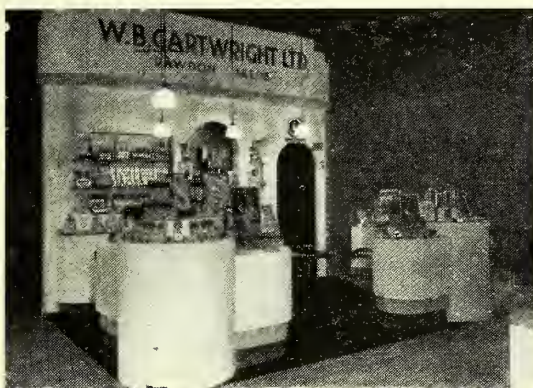
STRAIGHT from his duties at Edinburgh the president of the Pharmaceutical Society (Mr. Thomas Guthrie) was already in London at the opening of the forty-seventh Chemists' Exhibition at the Royal Albert Hall, London, on September 19. Mr. A. C. Merrin expressed the indebtedness of the organisers to Mr. Guthrie. The president, who, together with Messrs. A. R. Melhuish (a member of the Society's Council) and Fred Storey (president, Chemists' and Druggists' Society of Ireland) was with Mr. Merrin on the platform, then took the microphone. He offered congratulations to the promoters on their enterprise in bringing annually together under one roof for close on fifty years, in good times and bad, a large and varied collection of articles that pharmacists distributed to the public. He characterised the Exhibition as significant of the times, exemplifying the present fashions of the British people. Though he regretted some of the new fashions, pharmacists did not make them and must take the world as they found it.

A vote of thanks to Mr. Guthrie was proposed by Mr. A. R. Melhuish, who suggested that the opener deserved even greater credit than usual, because he had come such a long way for the purpose, at considerable sacrifice to himself, yet without evidence of strain. The vote was seconded by Mr. Fred Storey, who spoke of Mr. Guthrie's quiet dignity and of the "wonderful words of wisdom" he had spoken at Edinburgh. He coupled with the vote the name of Mrs. Guthrie, who had

had to make some sacrifice in order that her husband might travel south for the occasion. Mr. Guthrie made a brief acknowledgment.

Luncheon

The lunch was friendly and enjoyable. Mr. Merrin was in the chair. Close at his right hand were Mr. Guthrie and Dr. C. H. Hampshire (secretary, Pharmacopœia Commission), while at his left were Mr. Walter Deacon (vice-president, Pharmaceutical Society), with Mrs. Deacon and Mr. A. R. Melhuish. The guests totalled nearly 160, and among them were Messrs. G. H. Young, T. Heseltine, J. Hague, W. J. Tristram, J. F. McNeal, G. A. Mallinson, H. M. Hirst, A. Mortimer, F. G. Wells, H. E. Chapman, C. J. Yeates, S. J. Stearn, John Keall, E. Skues, H. R. Edgecombe, W. Atkinson, G. A. Tocher, P. H. Woodnoth. There were two "official" toasts. The first was "Success to the Chemists'



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Exhibition," proposed by Mr. Walter Deacon. Mr. Merrin, with whose name the toast was coupled, replied that the aim of the organisers was as much to expand the spirit of co-operation among pharmacists as to parade pharmacy and its associated arts. Chemists were a body of people who were constantly finding avenues for further service. It was only when the trade's activities were presented under one roof, as at the Exhibition, that this was realised.

The second toast, "The President of the Pharmaceutical Society," was proposed by Dr. C. H. Hampshire. Dr. Hampshire was not sure whether Mr. Guthrie was fortunate or unfortunate. He had certainly had two speeches in his honour. But he was at the necessity of answering them and making a third. It was to be

remarked that some of the president's wise speeches had been taken up in the responsible press, which was all to the good of pharmacy. Replying, Mr. Guthrie wondered if he could be sure it was himself before his hearers. Flattery, he thought, might be a good thing, because some of the flattering things said about him by Dr. Hampshire and others might prompt him to prove them justified. Mr. Guthrie vigorously rebutted any suggestion that his recent activities had been anything of a strain, and laid claim to a youthful mind in a "fairly youthful" body. He concluded by suggesting that the gathering should send a message of goodwill to Mr. Philip Want—"a scientific business man of the older school."

After an informal toast of Mr. Merrin by Mr. Deacon, the company adjourned.

Three makers of electric shavers were demonstrating their apparatus; these were the HANLEY (including a new A.C. model), the REMINGTON close-shaver and the SCHICK dry-shaver. THOMAS HARLEY, LTD., showed Rodine rat poison and other specialities. HOWARDS & SONS, LTD., had a stand which could be readily identified by the drug jars on show. Products displayed included bismuth carbonate, Quinisan, aspirin tablets, hydrogen peroxide and counter packages of various chemicals. MACLEANS, LTD., showed for the first time a new flat tin of Macleans' peroxide tooth powder; also on the stand were Oslo pine bath salts, Lemskin hand jelly, Fynnon salt, etc. F. MAUND & E. BERG (SHOWCASES), LTD., exhibited display stands and shop fittings and designs of recently executed shop fronts. McCURE, YOUNG & Co., LTD., displayed a most extensive range of packed drugs and



SHARP & DOHME, LTD.



BURGOYNE, BURBIDGES & Co., LTD.



ERNEST JACKSON & Co., LTD.

Stands

The Exhibition itself was compact and bright. The shape of the hall made it a social circle free from the class distinctions of front and rear exhibitors, of whom there were sixty-five.

ALLEN & HANBURY, LTD., were drawing particular attention to Glycurrant, a recently introduced cough linctus in an attractive pack; Lysantol antiseptic blackcurrant-base pastilles; Ferrodic iron-phosphate granules (non-staining to the teeth); Calcydic calcium, phosphorus and vitamin-D granules; sterilised surgical-dressing sets for minor and major operations and midwifery; and to a new blue and cream baby scale for shop use. BAYER PRODUCTS, LTD., were displaying a full range of specialities, including Acidol pepsin, Adalin, Betaxan, Biofural, Hydronal, Prontosil, etc. BEATSON, CLARK & Co., LTD., were showing hand and machine-made bottles and shop rounds for all pharmaceutical purposes. ROBERT BLACKIE displayed Spun ointments and numerous specialities. BRITISH COD LIVER OIL PRODUCERS (HULL), LTD., featured their Seven Seas branded cod-liver oil, capsules, and high-potency oil and Sol-Vit-Ax bulk oils. BRITISH & INTERNATIONAL PROPRIETARIES, LTD., were showing a number of proprietaries, including Glyrosa jelly in a new small tube pack and Nuzora, a gum-free hair dressing containing vitamin F and manufactured by ANZORA PERFUMERY Co., LTD. BURGOYNE, BURBIDGES & Co., LTD., were giving details of special contract terms for winter dispensing needs. On display were Red Diamond and Spartan brand pharmaceuticals, specialities, and medicinal paraffin of Empire origin, for which special terms were offered to purchasers during the period of the Exhibition. THOMAS CHRISTY & Co., LTD., in a miniature shop, showed numerous specialities and proprietaries for which they are the agents. COUNTY PERFUMERY Co. showed Brylcreem, Brylfoam, Hiltone hair bleach, Nicota smokers' toothpaste and toilet series reserved to chemists. EX-LAX, LTD., were offering ice-cream to visitors at their stand. FASSETT & JOHNSON, LTD., displayed the numerous proprietaries for which they are selling agents. WM. GARDNER & Sons, LTD., attractively set out actual examples of their sifting and mixing, powder dressing, granulating and other machines, roller mills and other appa-

galenicals, perfumery and gift novelties. MILTON PROPRIETARY, LTD., were offering new terms and new show material for their antiseptic specialities. PAPIER POUDRÉ, LTD., were showing Cottage Garden perfumes, Sandal-Cedar moth bags, and Papier Poudré products in book form; the managing director—a pharmacist—was in personal attendance. PARKE, DAVIS & Co. displayed their numerous specialities, including the recent introductions Gluco-Fedrin ephedrine, chloretone and menthol solution, Ventron hematinic and hæmopoietic compound, Mapharside arsenical compound and Tar Dermament. POTTER & MOORE, LTD., set out their Christmas gift coffrets for inspection. PRONTEX PRODUCTS were showing Prontex, a new breath deodorant. The RADIO-ACTIVE MINERAL WATER Co., LTD., were directing attention to Bad Gastein mineral water. W. J. RENDELL, LTD., showed their specialities. ROCHE PRODUCTS, LTD., had on display Citro-Thiocol cough syrup, Revitone tonic, Navigan travel sickness remedy and other specialities. RU-MARI, LTD., showed Ru-Mari compound and Tyrodone oyster concentrate. SCHOLL MANUFACTURING Co., LTD., displayed their range of foot aids and appliances. SCOTT & BOWNE, LTD., showed Scott's emulsion, Halivite, Kemdex denture cleanser, and proprietaries for which they are agents. SHARP & DOHME, LTD., were demonstrating the Mulford specialities, including Sucret's germicidal lozenges, Acetidine tablets containing aspirin, caffeine and phenacetin in a new waist-coat-pocket tin. A. L. SIMPKIN & Co., LTD., had on show a full range of their medicated confectionery. TAMPAX, LTD., were showing their hygienic tampons. UNITED GLASS BOTTLE MANUFACTURERS, LTD., showed many new designs amongst a wide assortment of bottles and jars for chemists. VIOSULFAL, LTD., were demonstrating the solubility of their sulphur preparation Viosulfal. G. H. ZEAL, LTD., showed clinical and household thermometers. ZENOBIA, LTD., were introducing some colourful perfumery novelties. Other exhibitors were the PROPRIETARY ARTICLES TRADE ASSOCIATION, the NATIONAL PHARMACEUTICAL UNION, ANGLO-AMERICAN PHARMACEUTICAL Co., LTD., BRITISH ALKALOIDS, LTD., W. T. OWBRIDGE, LTD., ERNEST JACKSON & Co., LTD. (lozenges and pastilles), W. B. CARTWRIGHT, LTD., CADBURY BROS., LTD.



CHEMISTS' EXHIBITION, 1938



Top Row
SCOTT & BOWNE, LTD.
COUNTY PERFUMERY
CO.

MACLEANS, LTD.

Second Row

THOMAS CHRISTY &
CO., LTD.

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Third Row

BEATSON, CLARK &
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ALLEN & HANBURY,
LTD.

Bottom Row

POTTER & MOORE,
LTD.

TAMPAX, LTD.
ANGLO-AMERICAN
PHARMACEUTICAL CO.,
LTD.



Trade Notes

PORTABLE ELECTRIC LAMPS.—Pifco, Ltd., Watling Street, Manchester, are advertising A.R.P. portable electric hand lamps and a free display stand which may be obtained from leading wholesalers or direct.

STAFF OUTING.—A party of 540 employees of F. W. Hampshire & Co., Ltd., manufacturing chemists, journeyed from Derby to Blackpool on the occasion of the firm's outing. A further 100 employees were picked up at Ambergate from the firm's Riddings factory.

ELECTRIC PADS AND BLANKETS.—Thermega, Ltd., 51-53 Victoria Street, London, S.W.1, are advertising Thermega electric heating pads and blankets as a means of providing relief to invalids and sufferers from rheumatism, neuritis, etc. Full details are given in our advertisement pages.

PAPER HANDKERCHIEFS.—The Toinoco Handkerchief Co., Ltd., 55 Hatton Garden, London, E.C.1, advertise in this issue menthol impregnated paper handkerchiefs for the treatment of nasal catarrh, etc. Two packs are available from October 1. Details are obtainable from the usual wholesalers or direct.

TREATMENT OF ASTHMA.—Burroughs Wellcome & Co., Snow Hill Buildings, London, E.C.1, have introduced Vaporole solution of adrenaline, 1 in 100, for the treatment of asthma by oral inhalation. This solution is sprayed in the mouth from an atomiser while the patient inhales deeply. It is issued in amber glass stoppered bottles of 5 c.c.

LISTERINE AGENTS.—The Lambert Pharmacal Co., 58 Standard Road, London, N.W.10, announce that from October 1 next J. C. Eno, Ltd., 160 Piccadilly, London, W.1, will act as selling agents for Listerine products throughout England, Wales and Eire. They will also act as agents for Northern Ireland and Scottish territories from January 1, 1939.

ARTISTIC PRESENTATION is the keynote of the products of Fontaine (Perfumes), Ltd., Castle Bromwich, Warwickshire. The range of these products is ready for distribution and will constitute attractive features in Christmas displays. Illustrated elsewhere in this issue are specimens of the products and packings. There are fifty gift coffrets available, and buyers are invited to apply for further details.

HÆMOSTATIC USES OF VIPER VENOM.—Boots Pure Drug Co., Ltd., Station Street, Nottingham, have issued a booklet on the hæmostatic uses of Rusven (Russell's viper venom). This product is described as a powerful blood coagulant for local application in the control of external bleeding. It is supplied in rubber-capped vials with ampoules of sterile distilled water containing 0.5 per cent. phenol for use as a solvent. Copies may be had on application.

FIRST-AID BOOKLET.—T. J. Smith & Nephew, Ltd., Neptune Street, Hull, have just published a booklet on first-aid which is intended as a handy and quick reference guide to first-aid in the home, factory, office or shop. This booklet consists of twenty-four pages, including cover, and is printed in two colours. A concise and easily followed plan of directions is given and is assisted by illustrations. Copies may be obtained on application to the medical department.

GASTEIN SPA WATER.—The full radio-activity of this water is guaranteed by the Department of Measures of the Radium Institute, Paris. It is prescribed for rheumatism, for liver and nervous complaints and is a tonic and revitaliser. Full details of special offers and educative literature on Gastein water will be supplied on request to the general agents, The Radio-Active Mineral Water Co., Ltd., 49 Southwark Street, London, S.E.1. This water will be demonstrated at the Chemists' Exhibition.

ELECTRIC RAZOR.—A special trade offer in regard to the Hanley dry shaver is announced in our advertisement pages. This razor, obtainable from the usual wholesalers, is the product of Orel-Micro Electric, Ltd., 39-41 Berners Street, London, W.1, who have adopted as their policy generous trade discount, controlled distribution, consistent national advertising and the provision of attractive literature and other sales aids. This dry shaver will be released for sale at the end of this month.

GILLETTE ONE-PIECE RAZOR.—Elsewhere in this issue an announcement is made in relation to a popular model of Gillette's one-piece razor. This razor, which is described as No. 45 set, together with two others at slightly higher rates, will be suggested as suitable Christmas presents in the leading national provincial newspapers. Chemists are advised to place their orders now with the usual wholesalers. Gillette razors are the products of Gillette Industries, Ltd., Gillette Corner, Great West Road, Isleworth, Middlesex.

TWO-MINUTE MAKE-UP.—Max Factor, Hollywood & London (Sales), Ltd., 16 Old Bond Street, London, W.1, have introduced a new evening make-up called Pan Cake. We are informed that this was evolved for technicolour pictures, and it is used with equal success in private life. The advantage of Pan Cake is stated to be that no foundation cream of any kind is necessary and very little powder or rouge is required. There are six shades of this make-up available, and details, together with skin colourings, may be obtained on application.

NEW SEALING TAPE.—Beiersdorf, Ltd., Bessemer Road, Welwyn Garden City, Herts, have introduced a new sealing tape prepared on a Pliofilm basis. This substance is described as Lassolastic and is similar in superficial appearance to cellulose tape. It is claimed that it possesses all the advantages of this material with the additional one that, thanks to its extensibility, it moulds itself to the outline of the container. Lassolastic is obtainable in various colours, and further details may be obtained from Messrs. Beiersdorf on application.

BENZEDRINE ANNOUNCEMENT.—Menley & James, Ltd., 64 Hatton Garden, London, E.C.1, direct the attention of chemists to the fact that there are no restrictions on the sale of benzedrine inhaler. Benzedrine tablets are, of course, recommended for inclusion in the first and seventh schedules from January 1, 1939. Benzedrine inhaler is described as a safe, simple and effective presentation of volatile *B*-aminoisopropylbenzene for the relief of nasal congestion and catarrhal conditions. Bonus terms are given in our advertisement pages.

STABLOND HAIR PRODUCTS.—J. C. Gambles & Co., Ltd., 211/215 Blackfriars Road, London, S.E.1, announce the introduction of two new products: Stablond liquid soapless and Stablond powder soapless. These products have been introduced for all shades of hair, and a special bonus offer is open. Chemists are invited to write for full particulars.—Dermina, which is described as a tested and medically proved reducing cream, is offered at advantageous rates. A national Press campaign is in progress, and chemists are invited to write for further information.

BROOKLAX WINDOW DISPLAY.—The Westminster Laboratories, Ltd., 4-12 Palmer Street, Westminster, London, S.W.1, have awarded prizes for window displays in Wolverhampton as follows:—First prize, £2 2s., A. E. Marlow, The Pharmacy, Penn Road, Penn, Wolverhampton; second prize, £1 1s., D. A. Rimmer, 311 Dudley Road, Wolverhampton; consolation prizes, 10s. 6d. each, W. H. Careless, 2 Willenhall Road, Wolverhampton; H. G. H. Jennings, 47 Worcester Street, Wolverhampton; and C. L. H. Lewis, The Lanesfield Pharmacy, Lanesfield, Wolverhampton.

OSTERMILK BOOK.—Glaxo Laboratories, Ltd., Greenford, Middlesex, have sent us a copy of the third, the latest, edition of the Ostermilk book, which is intended for practical guidance of mothers in the care of themselves and of their children. There are a number of important changes and additions, all of which are deemed necessary in view of the continuous advancement of medical knowledge. The most revolutionary change in the book is perhaps the "weight increases" table, which has replaced the "average weight" table. This innovation has been made since the compilers of the publication consider it better than any other method yet devised. This booklet, which is of octavo size, contains 176 pages bound in a stiff cover, and is profusely illustrated. An important feature of the booklet is the large-size type, which makes for easy reading and facilitates the absorption of information. Copies may be obtained by any chemist on application, who may also submit the names and addresses of mothers likely to be interested.

Marriages

BENZIE—AYLING.—At St. Peter's Church, Brighton, on September 17, John G. G. Benzie, M.P.S., Brighton, to Hilda M. Ayling.

BILSON—BARNES.—At St. Peter's Church, Bournemouth, recently, Frederick W. Bilson, M.P.S., only son of Mr. F. E. Bilson, M.P.S., Bournemouth, to Audrey Barnes.

BRUSTER—GOULDING.—At St. Mark's Church, Peterborough, recently, Francis G. Bruster, M.P.S., to Eva Goulding.

COLEMAN—MORRIS.—At Leeds, recently, Philip Coleman, M.P.S.I., Dublin, to R. Morris.

FOSTER—BURGIN.—At St. John's Church, Wembley, recently, Thomas Foster, M.P.S., to Jessie D. H. Burgin.

HARRIS—SILVER.—At London Road Congregational Church, Kettering, on September 15, Stanley K. Harris, M.P.S., Kettering, to Florence, daughter of Mr. R. D. Silver, M.P.S., Kettering.

TAYLOR—BAIN.—At Govan Old Parish Church, Glasgow, on September 16, Charles H. Taylor to Mary M. Bain, Ph.C., Glasgow.

TAYLOR—O'REILLY.—At Dublin, recently, Richard Taylor, Cork, to Margaret O'Reilly, M.P.S.I., Glin.

Deaths

BROWN.—On September 19, Mr. Neilson Brown, M.P.S., 30 Cranmore Avenue, Osterley, Middlesex. Mr. Brown, who qualified in 1900, has successively been with Parkes Drug Stores, Lewis & Burrows, Ltd., and John Barker & Co., Ltd., High Street, Kensington, London, W. The funeral is to take place at Loanhead, Edinburgh, on September 22.

CARPENTER.—On September 7, Dr. Charles C. Carpenter, C.B.E., M.Inst.C.E., J.P., aged seventy-nine. Dr. Carpenter was elected chairman of the South Metropolitan Gas Company in 1908, and later became president of the company, retiring in 1937 on medical advice. He was a member of a number of war-time committees and took a leading part in forming the Association of British Chemical Manufacturers, of which he was chairman from 1916 to 1938. Dr. Carpenter was president of the Society of Chemical Industry from 1915 to 1917, and received the Society's Medal in 1923. In association with Sir George Beilby, Dr. Carpenter evolved what is now known as the "therm" method of charge, by which gas is made and sold upon its heating value and not upon its volume basis, and he led the way in promoting legislation by which this system was made statutory. The funeral took place at Nunhead Cemetery on September 12, and a memorial service was held in Southwark Cathedral on September 17.

DUNSFORD.—On September 17, Mr. Thomas William Dunsford, M.P.S., Harbreck Street, Marychurch Road, Torquay, aged seventy-two. Mr. Dunsford died suddenly in his hotel at Edinburgh, where he had attended the British Pharmaceutical Conference as a delegate from the Torquay and District Branch. He is survived by a widow and two daughters.

HOLLINGWORTH.—On September 21, Mr. Oliver Albert Hollingworth, M.P.S., J.P., Wath-on-Dearne, aged seventy-one. Mr. Hollingworth, who began business at Wath in 1895, entered public life during the war, when he was appointed to the local war tribunal and to the Food and Pensions Committees. He had been chairman of the local urban district council and represented Wath on the Yorkshire West Riding County Council from 1925 until he retired from his local government offices in 1935.

KING.—At his home, 83 Cranbrook Avenue, Hull, recently, Mr. Lawrence Bowdler King, M.P.S. Mr. King, who qualified in 1888, was at his business in Fountain Road the day previous to his death. Outside business his chief activities were in connection with the Methodist Church. Mr. King leaves a widow, a son and a married daughter. His two elder sons were killed in the Great War. The funeral took place at the Northern Cemetery, Hull, on September 19.

Personalities

MR. PHILLIP M. CHATBURN, M.P.S., has been granted permission to practise as a chemist in Guernsey.

COUNCILLOR WOOLLEY, (Cupal, Ltd., manufacturing chemists), who has been ill at his home in Blackburn, is now improving in health.

MR. OSWALD L. CARRINGTON, M.P.S., Chipping Norton, is to be mayor of the town for the second year in succession. He entered the council in 1936.

MISS NORA G. RANGLES, M.P.S., F.B.O.A., Romiley, Cheshire, gave an address on "The Pharmacist" recently at a club luncheon of the Stockport Soroptomist Society.

MR. THOMAS G. STEWART, M.P.S., High Street, Bracknell, Berks, was a member of the local team that reached the final of the Berkshire County Rink bowling championship.

CERTIFICATES OF NATURALISATION have been granted to J. F. Charpy, chemist chief perfumer, Chardi, Byfleet Road, Cobham, Surrey; W. F. Frankfurth, chemist, 6 Grange Road, Woodthorpe, Nottingham; E. F. Lay, physician and surgeon, St. James's Hospital, Beckett Street, Leeds; H. C. C. M. Ljungfaldt, physician, County Hospital, York; E. Mehl, research chemist, 536 Mumbles Road, Mumbles, Swansea; B. Rivlin, medical practitioner, 74 Hartland Road, West Ham, E.15; A. S. S. Said, medical practitioner, 35 Wheelwright Lane, Coventry.

MR. H. A. MECOY, 117 Winter Road, Southsea, who was recently re-elected president of the Portsmouth Chemists' Association, is a native of Maidstone, Kent, where he was educated. After qualifying in 1920, he held a managership in the Aldershot district for a few years. Fourteen years ago he went to Southsea, where he established his present pharmacy. Immediately on coming into the district Mr. Mecoy was elected a member of the local Association, and was quite early appointed to the committee. Three years ago he was invited to become vice-president, and last year, at the unanimous invitation of the members, he was elected president. His interest and keenness extends also to the social side of pharmacy in Portsmouth, and here he has been ably seconded by Mrs. Mecoy. He is chairman of the Portsmouth Branch of the Pharmaceutical Society, chairman of the Pharmaceutical Committee, and a member of the Pharmaceutical Service Subcommittee.



MR. H. A. MECOY

Coming Events

Tuesday, September 27

Association of Pharmaceutical Employees, Y.M.C.A., Great Russell Street, London, W.C.1, at 8.45 p.m. Meeting for staff of Timothy Whites & Taylors, Ltd.

Thames Valley Pharmacists' Association, Kingston Hotel, Kingston-on-Thames, at 8.45 p.m. Meeting and supper.

Guild of Public Pharmacists, Liverpool Branch, Royal Institution, Colquitt Street, at 8 p.m. Meeting.

Wednesday, September 28

Manchester Pharmaceutical Association, Manchester Limited Restaurant, at 7.30 p.m. Reception and dinner-dance.

Anglesey, N. Carnarvonshire and Colwyn Bay Branch, Pharmaceutical Society, Castle Hotel, Conway, at 3 p.m. Meeting.

Chester Branch, Pharmaceutical Society, Queen Hotel, City Road, at 8 p.m. Film show.

Friday, September 30

South-West London Chemists' Association, Balham Club Ltd., Ramsden Road, S.W.12, at 8.45 p.m. Mr. H. N. Linstead, O.B.E., Ph.C., on "Telling the Public About Pharmacy."



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Insurance Terms Decision

THE long-awaited conference of representatives of pharmaceutical committees was held in London on September 21, and elsewhere in this issue is a brief account of the decisions which have been arrived at. The two chief points on which an agreement has been reached are: first of all, that the chemists' representatives have agreed to drop their special claim in regard to the 1937 epidemic subject to the present contract being cancelled and the new contract being made on a no-discounting basis. Secondly, that the new contract be for five years. Although the conference was a private meeting of chemists' representatives from all parts of England and Wales, it may well be said that the prestige of Mr. Mallinson and the Executive of the N.P.U. has been considerably enhanced in the minds of those who represent the panel chemists. It is certain that in establishing the right to payment in full the N.P.U. Executive will receive the encomiums of panel chemists. There is, however, another side to the question. The point has been raised as to whether or not acceptance of this offer by the Ministry of Health may affect the dispensing chemist in regard to improved payment for his services. It has always been difficult to decide whether a bargain is advantageous not only in immediate circumstances but for future generations. As Government schemes grow so far as health services are concerned, the chemist is bound to loom larger in the eyes of the community than he has done in the past. The medical profession cannot hope in these days to provide a dispensing service equivalent to that offered by pharmacists. To wait and see was a slogan which raised a certain degree of derision; nevertheless, in view of the fact that chemists' representatives have decided to accept present conditions with full payment irrespective of any offer of increased fees for their professional services, this slogan may have a particular significance.

Trade Under Present Conditions

It is satisfactory to record that wholesale business in the chemical and drug trade has shown a fairly good and general improvement during the past week. The demand, however, has been chiefly confined to spot goods. The sudden decision on the part of consumers to replenish their stocks has no doubt been due to the critical international political conditions in Europe over the past week, which, at the moment, and at least for the time being, seem a good deal less likely to culminate in disaster. The values of imported goods on spot, which had reached a low level, are now being realised and the tone in the markets is considerably steadier with holders of the limited stocks of many products declining orders at anything but full prices. There is a distinct tendency for commodity values to harden.

Shipment business, outwards as well as inwards, is almost at a standstill, except for goods for immediate despatch to and from the Continent. This has been caused by the action of the Joint War Risk Rating Committee of Company and Lloyd's Underwriters in announcing that insurance against war risk would for the time being form the subject of separate insurance from the ordinary marine policy; at the same time they issued a schedule of minimum rates which included some of the chief shipping routes to and from this country. The rates vary according to destination and, in some instances, the figure quoted for the inward journey is double that indicated for outward bound goods. The short sea route to and from the Continent is only 2s. 6d. per cent., subject to shipment within 48 hours. All other quotations are subject to sailings within seven days of acceptance of the cover. To and from Baltic countries is 20s. per cent., while shipments from China and Japan, *via* Suez, to this country are as much as 80s. per cent. This is, for instance, equivalent to an extra sixpence on the landed cost of menthol. A further development is the decision by Lloyd's to promote a new system of "open cover" insurance for war risks under which merchants and shippers would be given contracts, renewable monthly, under which they could declare all shipments made for their account and obtain cover at the rates of the current schedule. Such covers would, however, be subject to the "48 Hours Cancellation Clause," the provision that only shipments for "immediate sailings" are covered and any other provisions that may be promoted by the Joint War Risk Rating Committee. With so many restrictive conditions which, with the current high rates, are liable to alteration from day to day, the facilities available are, for practical purposes of forward shipment business, useless.

It is probable the underwriters are at present carrying considerable cover on goods yet to be shipped, particularly to and from the East, at about sixpence per cent., and that they have no desire to accept new obligations even at the high rates at present quoted. Importers, for their part, are not going to pay, for example, 80s. per cent. on goods to come from Japan, when, quite possibly, with easier political conditions, the rate may be back to sixpence before the goods are actually shipped. Fair rates of insurance for sea-borne goods against loss or damage caused by hostile action, compatible with the risk, can only be looked upon as reasonable, but the stipulations and restrictions at present laid down by the underwriters might be considered something approaching an abuse of the unique position they hold.

British Pharmaceutical Conference, 1938

Proceedings

(Concluded from THE CHEMIST AND DRUGGIST, September 17, p. 301)

Science Session

Thursday Morning, September 15

THE Science Session was resumed at 10 a.m. on Thursday morning, September 15. Mr. J. Rutherford Hill, who was in the chair, called upon Mr. Penman to read the next paper on the list.

Iodometric Assay of Iron in Easton's and Parrish's Syrups

By J. C. PENMAN and T. H. HOPPER

[ABSTRACT]

THE official method for determination of iron in Easton's syrup is rapid and accurate, but the titanous chloride solution must be standardised before each assay, as it deteriorates very quickly. Consistently accurate results with stable reagents are obtained by a procedure depending upon the conversion of iron into ferrocyanide by the action of potassium cyanide. The iodometric method of assay is as follows:—

Transfer about 20 gm. or mils of the syrup to a flask; add 25 mils of solution of ammonia and dilute to about 100 mils with water. Add 40 mils of solution of potassium cyanide (20 per cent. w/v) and heat to boiling. Cool to about 30° C. and add slowly 25 mils of sulphuric acid (25 per cent. v/v). Oxidise the iron by the addition of solution of potassium permanganate (2 per cent. w/v) until a slight excess of permanganate persists. Set aside a few minutes to allow the organic matter present to remove this excess of permanganate. Cool to room temperature and add 4 gm. of potassium iodide and 4 gm. of zinc sulphate. After five minutes decolorise the liberated iodine with 80 mils of N/20 sodium thiosulphate. Back-titrate the excess of thiosulphate with N/20 iodine, using mucilage of starch as indicator. Each mil of N/20 sodium thiosulphate is equivalent to 0.00596 gm. of $\text{Fe}_3(\text{PO}_4)_2$.

Prolonged boiling after adding potassium cyanide should be avoided. Conversion of iron into ferrocyanide will be incomplete unless sufficient cyanide is present. Tests on solutions of ferrous ammonium sulphate with added constituents of Easton's syrup showed that the presence of alkaloids and sugars tended to lower results. The error with the iodometric method was equivalent to *minus* 1.1 per cent. of $\text{Fe}_3(\text{PO}_4)_2$ against *minus* 2.8 per cent. with titanous chloride titration. The errors by either method could be considered as negligible in view of the wide B.P. limits for ferrous-phosphate content of Easton's syrup.

Determinations of iron in samples of syrup of ferrous phosphate with quinine and iron gave the results shown in Table I:—

TABLE I.

Sample	Iodometric Method			Titanous-Chloride Method		
	Per cent. w/w $\text{Fe}_3(\text{PO}_4)_2$			Per cent. w/w $\text{Fe}_3(\text{PO}_4)_2$		
			Mean			Mean
A	1.37	1.38	1.375	1.37	1.37	1.37
B	1.43	1.42	1.425	1.43	1.41	1.42
C	1.34	1.33	1.335	1.33	1.34	1.335
D	1.37	1.37	1.37	1.36	1.37	1.365

Samples A, B and C were obtained from different wholesalers, and D was prepared in the laboratory. Sample C was discoloured and contained a deposit which was filtered out before assay. The iron content of Compound Syrup of Ferrous Phosphate (Parrish's syrup) made by the authors was 0.6815 per cent. w/w as $\text{Fe}_3(\text{PO}_4)_2$ iodometrically and 0.680 per cent. by the official method. Two different commercial samples approximated closely (0.6735 and 0.6835 per cent. by iodometric assay), whilst a third gave 0.754 per cent. of anhydrous ferrous

phosphate. (From the Department of Pharmacy, Sunderland Technical College.)

DISCUSSION

MR. CORFIELD said that this alternative method would be one which many workers would adopt. He had tried it himself since he had received an advanced copy of the paper, and had found one or two difficulties, which he outlined.

MR. POWELL had not tested the method so far, but imagined that the accuracy of it would depend on the accuracy of the determination of the ferrocyanide. He thought details appeared to be lacking in regard to final details of the titration.

MR. PENMAN, replying to Mr. Corfield, gave modified details of the method. He felt that the difficulties in the end-point were due to unfamiliarity with the method, and thought that these difficulties in respect of colour changes would be overcome with practice. In answer to Mr. Powell's question, he had found that different factors of temperature and concentration, etc., gave different titration results, and the figures given in the papers were the ones found to be most suitable.

MR. RUTHERFORD HILL suggested that the details raised in the discussion be incorporated into the papers when published in the "Quarterly Journal."

The next paper, which in the absence of the author was read by Mr. A. J. Jones, was as follows:—

Darkening of Bismuth Carbonate

By NORMAN GLASS

[ABSTRACT]

THE action of light in darkening bismuth lozenges with some makes of bismuth carbonate whilst others are almost unaffected is investigated and the conclusion reached from the preliminary survey is that the very pure products are the most sensitive to light. The insensitive ones are protected by an inhibitor, the nature of which impurity has not yet been determined.

The *Light Test* is performed on a mixture of 1 gm. of bismuth carbonate and 9 gm. of icing sugar ground into a paste with 2 mils of water and spread on a tile or sheet of glass. Exposure to light causes some samples to turn completely black in a few days while others are not appreciably darkened.

Five types are tabulated, viz.:—

- 1st sensitive ... Quickly blackens.
- 2nd sensitive ... Slowly blackens.
- Intermediate ... Deep brown finally.
- 2nd insensitive ... Medium brown in time.
- 1st insensitive ... Very slight attack after long period.

There are many degrees of susceptibility between the two extremes, but first-class sensitives are unmistakable as they become jet black and shiny quickly, whereas the second class take a few weeks to become nearly as black. The least sensi-

Commercial samples

No.	Relative bulk	Non-bismuth per cent.	Nitrate (B.P. limit = 1.0)	Chloride (B.P. limit = 1.0)	Light Test
1	51	1.0	0.5	Very faint trace	Intermediate.
2	44	1.4	0.7	0.5	Intermediate.
3	43	0.9	0.3	0.75	Sensitive 2nd class.
4	35	0.6	0.2	Very faint trace	Sensitive 1st class.
5	31	1.9	0.7	0.2	Insensitive 2nd class.
6	28	1.5	0.7	0.5	Insensitive 2nd class.
7	27	1.1	0.3	0.2	Sensitive 2nd class.
8	25	0.6	0.3	Very faint trace	Sensitive 1st class.
9	24	1.3	0.8	Faint trace	Sensitive 2nd class.
10	23	2.2	2.0	On limit	Insensitive almost 1st class.
11	22	2.2	2.25	Slightly over	Insensitive almost 1st class.

tive class consisted of one small sample and further material from the same source was not quite as insensitive. Five

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different sources of bismuth metal were converted into bismuth carbonates which fell into the intermediate class. In the experiments on precipitation of bismuth solution with sodium bicarbonate, the hard waters of London and Southport yielded insensitive (2nd class) products.

The table includes particulars of commercial samples which show the wide range in sensitivity, the purer medium density type being the most sensitive to light. Reprecipitation of No. 4 with London tap water made a marked improvement in resistance to light, the cold precipitate being in the second sensitive class and the hot precipitate in the intermediate class. No. 10 after conversion into subnitrate and converted in carbonate became 2nd-class sensitive. It is noted that bismuth hydroxide quickly goes from grey to black in the sugar test whilst subnitrate is unaffected.

DISCUSSION

MR. EVERS said it used to be thought that silver caused the darkening, but this idea had been exploded. In fact, silver may actually inhibit this effect. He suggested that the author should use an ultra-violet lamp for his experiments.

MR. PINDER suggested the standardisation of light and the use of photographic paper as a method of control.

MR. STEPHENS referred to the use of gelatin in the process of manufacture.

MR. WIDGERY thought the darkening might possibly be due to a trace of sulphur.

MR. JONES, in replying to the discussion, thought the possibility of organic matter had been overlooked, but he was certain there was no trace of sulphur.

The next paper was

Carbonisable Impurities in Phenacetin

By J. L. PINDER AND P. F. R. VENABLES

[ABSTRACT]

THE British Pharmacopœia, 1932, requires thirty-five compounds to comply with a "limit for readily carbonisable impurities" which are detected empirically by admixture with concentrated sulphuric acid. The test does not appear to be correlated in any way with other tests, and inquiries from manufacturers reveal that none of some thousands of samples failed to comply therewith, and hence it was redundant.

Phenacetin was chosen for primary investigation as to the nature of the impurity detected by the test. No measurable amount was obtainable from 250 gm. of phenacetin, B.P., but commercial grade phenacetin yielded less than 0.04 per cent. of an orange liquid ($C_{11}H_{13}NO_2$), a mere trace of which gave an intense orange coloration with strong sulphuric acid. The production of the impurity during acetylation of commercial *p*-phenetidine in air suggests that it is formed by the action of oxygen and acetic acid upon some impurity in the *p*-phenetidine.

The possibility of the B.P. product being contaminated therewith is apparently remote, but it is possible for it to contain tarry matter free from the specific impurity. Hence it is suggested that the test for "readily carbonisable impurities" be replaced by a more comprehensive limit for tarry matter. A simple solubility test should suffice, e.g., "Dissolve 35 gm. of phenacetin in 50 mls of alcohol (95 per cent.) by heating, cool to 15° C., when the solution should be colourless when viewed in a Nessler cylinder.

Mr. Pinder demonstrated the special apparatus which had been made for him and which was fitted with inverted glass joints in order to overcome the difficulty encountered from the lubricants employed in the glass junctions.

DISCUSSION

In reply to a question raised by MR. POWELL, MR. PINDER said that there was a specific substance which gave a coloration with sulphuric acid which was being looked for. Mr. Pinder also said that the question of the melting point had not been thoroughly investigated. Commercial grades of phenacetin gave a reasonably constant melting point.

MR. RUTHERFORD HILL thought that the apparatus was applicable for general use and that it might be adopted in many other directions.

The next paper to be taken was

The Assay of Belladonna Plaster

By W. T. WING

[ABSTRACT]

DIFFICULTIES present themselves in separating belladonna alkaloids from the constituents of resin plaster (colophony, hard soap and lead oleate), but it was found that two minutes' boiling with dilute sulphuric acid effected thorough disintegration and extraction. This is used in the method of assay of belladonna plaster as follows:—

Weigh into a tared flask 15 gm. of plaster, dissolve in 40 mls of chloroform. Remove the chloroform on a water-bath until of a thick consistency. Add 20 mls of dilute sulphuric acid and 50 mls of water. Heat with constant stirring to remove the remaining chloroform, and boil for two minutes. Cool immediately to laboratory temperature. Adjust the weight with water to 76 gm. plus the weight of plaster taken. Filter and transfer to a separator 50 mls, representing two-thirds of the weight of the plaster being assayed. Add 10 mls of chloroform, shake well, run the chloroform layer into a second separator containing 5 mls of N/10 sulphuric acid, shake well, allow to separate and reject the chloroform. Repeat with a further 10 mls of chloroform. Transfer the acid liquid from the second separator to the first separator, make distinctly alkaline with dilute solution of ammonia, and extract the alkaloids with four successive portions of 35 mls of chloroform. Wash the combined chloroform solutions with 5 mls of water. Remove the chloroform and dry the residue for half an hour at 100° C. Dissolve the residue in 1 ml of chloroform, add 10 mls of N/50 sulphuric acid, remove the chloroform, cool, and titrate with N/50 sodium hydroxide using methyl red as indicator. Each ml of N/50 sulphuric acid is equivalent to 0.005784 gram of hyoscyamine. To the amount indicated by the titration add 0.003 gram to correct for loss of hyoscyamine.

In the case of spread belladonna plaster, 30 gm. cut into small pieces is treated with 50 mls of chloroform, with warming and stirring, until the plaster dissolves. The chloroform solution is transferred to a tared flask and the treatment repeated with successive portions of 20, 20 and 10 mls of chloroform. The assay process is completed on the thick residue remaining after removal of the chloroform from the bulked solutions. The weight of the plaster is obtained by subtracting the weight of the dried fabric from the weight of the spread plaster. The loss of hyoscyamine during assay approximates 0.003 gm., part of which is due to retention of alkaloid in aqueous layer during chloroformic extraction.

The method is free from practical difficulties and is consistently accurate. Formation of emulsions makes it inapplicable to belladonna plaster made with rubber basis.

DISCUSSION

MR. STEPHENS asked if the authors had taken into account the moisture content in spread plasters.

MR. DEANE pointed out that plasters vary considerably in the amount of water in them. Belladonna root also varies in the amount of extract it yields. He assumed there was nothing in the fabric which would be soluble in chloroform.

MR. WAGG said he noticed the correction figure was 12.15 per cent., but he thought the amount of alkaloid in the aqueous layer seemed variable. He suggested that the aqueous solution be saturated in the first place with, say, hyoscyamine sulphate to avoid solution in the aqueous layer.

MR. CORFIELD said there was some confusion as to what belladonna plaster is, and suggested that the various authorities should clear up the matter.

MR. EVERS, in replying, agreed that the correction figure was rather large, but it was constant. He did not see how a saturated solution of hyoscyamine could be used, since he started with an acid solution and then made it alkaline.

The next paper was

Liquor Eastonii pro Syrupo

By A. J. JONES

[ABSTRACT]

THE research confirms that a purely phosphatic preparation of quinine and iron cannot be made as a single solution at any concentration much higher than that of the official syrup. Quinine phosphate is readily soluble in phosphoric acid, but the

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presence of combined phosphate depresses the solubility below that of a 1-in-3 liquor. Only by radical alteration can a single-solution liquor be produced for extemporaneous preparation of Syrupus Ferri Phosphatis Compositus cum Quinina et Strychnina, and the question arises whether this is worth while. A single solution four times the strength of the official syrup necessitates the use of ferrous chloride in place of ferrous acid phosphate. The alternative to such modification of the formula of Easton's Syrup is to use two solutions (each eight times the strength of the official syrup as regards their respective ingredients) and mix in equal parts with glycerin, water and syrup. (From the laboratories of Evans Sons Lescher & Webb, Ltd.)

Mr. JONES provided several samples to demonstrate the precipitates which form between quinine and phosphoric acid at certain concentrations.

DISCUSSION

Mr. BENNETT said he wished to place on record the thanks of the Pharmacy Sub-Committee of the Pharmacopœia Commission, of which he was chairman, to Mr. Jones for this work. While it would be very desirable to prepare a uniform series of concentrated liquors of the B.P. syrups, he said the position must be faced as it is, and the difficulties appreciated. He thought that the formula of this historic syrup should not be changed.

Mr. TREVES BROWN recalled the difference in the glycerin contents of the syrup of the present and last pharmacopœias, and thought that the difficulty might be due to this factor. He asked Mr. Jones if he had considered the possibility of including hypophorous acid to the liquor. A 1-3 liquor could be made, he pointed out, by mixing the two solutions of the B.P.C., and this appears to be quite stable, as also does the syrup made from it.

Mr. FRANKLIN, continuing the discussion, said he thought the suggestion of replacing some of the phosphoric acid by a little hypophorous acid was very sound, as it reduces the amount of acid in the preparation, acts as a preservative, and makes a more satisfactory product.

Mr. DEANE did not think that too great a change in the composition of the old syrup. If it were desirable to effect a great change for practical purposes a new name should be adopted.

In reply, Mr. JONES reaffirmed his original intention in conducting the investigations. He had no wish, he said, to alter the original preparation, but only wanted to see how the demand for a 1-3 solution could be met.

The next paper was

Keeping Properties of Soda-Mint and Ginger-Mint Tablets, B.P.C.

By H. BURLINSON

[ABSTRACT]

THE British Pharmaceutical Codex formulas for soda-mint tablets, ginger-mint tablets contain $\frac{1}{4}$ th-grain of ammonium bicarbonate in each tablet of approximately 5 grains, differing in this respect from the tablets usually sold by the trade under this synonym. The use of the term soda-mint by the Codex is contrary to long-established custom and is particularly unfortunate, as the volatility of the ammonium bicarbonate makes the B.P.C. formula impracticable. Pharmacists are placed in the invidious position of rendering them-

TABLE I.

	Conditions of Purchase	Deficiency of Ammonium Bicarbonate per cent.
1	A paper envelope containing an ounce of tablets	95.2
2	A one-ounce chip box half filled	100.0
3	A full one-ounce ointment box	40.6
4	A bottle of 50 tablets, two-thirds full, plugged with cotton wool and sealed with a screw cap bakelite top with a cork liner ...	99.5
5	A full bottle of 25 tablets, without cotton wool. Aluminium screw cap with cork liner	97.2
6	A bottle of 100 tablets, almost full, tightly plugged with cotton wool and closed by a bakelite screw cap with a cork liner ...	98.3

selves liable to prosecution, as it is impossible to supply soda-mint (or ginger-mint) tablets of B.P.C. strength, since

these will certainly be deficient in ammonia. The experimental work was done mainly on soda-mint tablets, B.P.C. Loss by volatilisation during manufacture averaged about 9 per cent., and samples purchased from manufacturers showed wide variations, the deficiency in ammonium bicarbonate ranging from 22.5 to 87.4 per cent. Table I relates to samples labelled B.P.C. purchased by retail, and it will be seen that all except one exhibit almost total deficiency of ammonium bicarbonate.

A detailed study was made of the rate of loss of ammonia under varying storage conditions, and the following conclusions were obtained:—

(1) The loss is continuous from preparation of granule and depends upon the extent to which it is exposed, the type of tablet container, and the storage temperature.

(2) Minimum loss occurs in full bottles kept tightly stoppered at low temperatures, but tablets in bottles of twenty-five show much greater loss than bulk tablets, despite precautions to ensure airtight seal.

(3) For storage, bottles are preferable to tins, and tins with lever lids are better than those with slip-on lids.

(4) The main loss of ammonia from tablets stored at low temperature is from expulsion of gas during removal of stopper, which upsets equilibrium conditions and leads to further dissociation of ammonium bicarbonate.

(5) Rates of loss are much the same from filled and half-filled containers at low temperature, but the latter lose ammonia much more rapidly at higher temperatures owing to leakage.

It is noted that conditions of storage in pharmacies would result in greater loss of ammonia than the experimental values. An attempt to protect the volatile ammonium bicarbonate by coating it with wax did not disclose any apparent advantage. The results of tests on ginger-mint tablets, B.P.C., show that these give losses of ammonia corresponding with those of soda-mint tablets, B.P.C. Finally, it is pointed out that the adoption of the Codex tablet in the National Formulary makes it impossible for a National Health Insurance prescription to be dispensed without the pharmacist putting himself in the wrong. It is therefore suggested that the ammonium bicarbonate be omitted from the Codex formulae and that the titles soda mint and ginger mint be reserved for tablets which it has been the custom of the trade to supply.

DISCUSSION

Mr. R. R. BENNETT pointed out that the authority of the Codex was not comparable with that of the B.P., but chemists have been taken to task for deficiencies of ammonium carbonate. He considered ammonium carbonate was not an essential constituent. Further, when the Codex takes an historic name it should be consistent with trade custom and not adopt a bad formula.

Mr. FRANKLIN characterised the paper as an important one, as it drew attention to a correct formula, and would also provide protection in case of prosecution. The Codex should not be made a standard in a court of law, or, if that is to happen, the Codex should be revised.

Mr. BRINDLE thought ammonium bicarbonate was introduced because it was supposed to be more stable than ammonium carbonate.

Mr. PINDER presented the analysts' point of view. He pointed out that analysts considered that if the Pharmacopœia or Codex authority put a standard in their publication they do so for some good reason. He wondered if the lack of ammonium carbonate could be overcome by suspending a small piece of ammonium carbonate within the container.

Mr. STEPHEN JONES thought it was time that volatile preparations were eliminated from official publications where this could be done without loss of efficiency.

Mr. MEER said it was possible to find 90 per cent. of ammonium carbonate in freshly made tablets. He thought that temperature played a more important part than time. In his opinion, the loss of volatile oil was an important matter, and he inquired if any tests had been made in this respect.

Mr. WIDGERY did not think that cotton wool was advisable as part of the closure of the container.

Mr. F. BROWN said slow evaporation increases the porosity of the tablets. He thought dyspeptics would at once notice if the ammonium carbonate was omitted, and suggested that the

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Codex Committee should add a few words at the end of monographs on such products concerning their volatility.

MR. DEANE said the Codex had changed the original formula as soda-mints had been introduced as a proprietary article and did not contain ammonia.

MR. MAPLETHORPE thought the omission of ammonium bicarbonate would be a good line for the Codex to follow. He also thought that too much importance was placed on the absence of ammonium carbonate and that analysts were chasing pharmacists unduly. He also thought that consideration should be given to the omitting of saccharin.

MR. NAYLOR inquired if the author of the paper had any experience of the darkening in colour of the tablets on keeping.

MR. TREVES BROWN said the introduction of ammonium bicarbonate was with the object of producing a more stable tablet. This was the only alteration. The Codex Committee had had no complaint from manufacturers to the effect that the Codex product differed from trade custom.

MR. BURLINSON said cotton wool did not retain the ammonia and he considered that if ammonium bicarbonate was included it was for its medicinal action. Some manufacturing chemists do not like to include these tablets on their lists, presumably because they regard them as unstable. He had noticed the darkening effect of the tablets on storage, but had not yet investigated the matter.

The next paper to be read was that on

Assay of Thyroid on Tadpoles

By FRANK WOKES

[ABSTRACT]

AN investigation is made of a new method of estimating the relative activity of thyroid powders from the diminution in length of tadpoles. The assay is based upon the discovery by Gaddum that the average diminution in length of tadpoles is roughly graded to the dose absorbed during a twenty-four hour exposure to a concentration of thyroxine which would prove toxic within six to eight days. To compare the activity of two samples of thyroid gland, a weighed quantity of each in No. 60 to 80 powder is shaken with distilled water to give a suspension containing 1 or 2 mgm. in 20 mls. Two sets (one for each sample) of three series of forty-eight (numbered) boiling tubes are prepared containing 20 mls of the suspension in the first series, 10 mls of suspension and 10 mls of distilled water in the second series, and 5 mls of suspension and 15 mls of distilled water in the third series. Fresh suspensions must be used for the assays. Tadpoles taken from stock which have been growing steadily on a diet of coagulated white of egg should be chosen, so that their average length on each dose is approximately the same and lies between 20 and 28 mm. The tadpole, after measuring, is placed in its (numbered) tube of thyroid suspension for twenty-four hours (no food being supplied), and then transferred after rinsing with water to remove adherent powder to a clean boiling tube of water where it is fed again. Daily measurements of length are made on the tadpoles on the highest dose and, when diminution in length is discovered, the whole series must be measured daily until a suitable effect is obtained, which may take two or three days. The loss in length averages between 15 and 30 per cent., or $3\frac{1}{2}$ to 7 mm. in a tadpole with an initial length of 24 mm. The effect of the two thyroid powders are plotted on the same diagram against the logarithm of the dose. The two log. dose/effect curves are usually parallel. When the curves are not parallel this may be due to highest dosage of one powder being too near the maximal. The results therefore have to be discarded, and the potency calculated from the two lower doses by Mark's method (introduced for similar effects on mice injected with insulin). The method applied to eight different thyroid powders gave the results in the following table.

The method provides information of value with a fraction of the time and labour involved in metabolic assay, but the main interest in the results is whether thyroxine or total organic iodine is the truer indication of physiological potency. In the table none of the three ratios (P/T, P/NT or P/TO) remained constant for all the eight samples, but on the whole there is much more deviation (50 per cent.) in the physiological value of the thyroxine ratios than in those for non-

thyroxine iodine (35 per cent.) and total organic iodine (34 per cent.). Experiments show that diiodotyrosine has less than one-thousandth the activity of thyroxine on tadpoles, but results to be published later indicate that compounds of diiodotyrosine may have a physiological activity which is considerably greater than that of diiodotyrosine itself. The assays of thyroid on tadpoles consistently produce results several times as great as the equivalent dose of thyroxine. This supports the theory of Gaddum and Harington (from metabolic tests) that the physiological activity of thyroxine may be enhanced by combination with suitable amino acids. It is concluded that the tadpole method gives results more closely parallel with total organic iodine than thyroxine iodine.

Comparison of chemical assays of thyroid powders with their physiological potencies measured on tadpoles

Thyroid powder	Chemical			Physiological potency P	P T	P NT	P TO
	Thyrox. iodine	Non-thyrox. iodine NT	Total organic iodine TO				
	T		TO				
	(mgm. per 100 gm.)						
S	270	280	550	100	0.37	0.36	0.18
B	185	350	535	261	1.41	0.75	0.49
C	210	250	460	126	0.60	0.50	0.27
D	160	220	380	195	1.22	0.89	0.51
E	200	390	590	193	0.97	0.49	0.33
F	105	80	185	38	0.36	0.48	0.21
G	195	285	480	158	0.81	0.55	0.33
H	94	156	250	50	0.53	0.32	0.20
Mean ...	...	...	...	—	0.78	0.54	0.32
Standard deviation ...	...	...	...	—	0.39	0.19	0.11
Standard deviation as per cent. of mean	...	...	...	...	50	35	34

Powder S was chosen as standard. It contains two and a half times the amount of thyroxine iodine required by the British Pharmacopoeia. The results suggest that B.P. and U.S.P. standards are very low and permit the use of thyroid powders in which a considerable proportion of the activity has been lost.

DISCUSSION

MR. BENNETT remarked that he was not sure that the method suggested was applicable for routine use, but it might lead to the selection of some valuable physiological test.

MR. WILSON asked for details of the method of measurement of the tadpoles, and wondered if changes in surface area in contra-distinction to alterations in length should not be considered. He also asked Mr. Wokes if the administration of thyroid gland to children for metabolic disorders would lead to the production of a race of pygmies.

In reply, MR. WOKES explained the method of measurement. By placing the tadpole on filter paper, it could be handled easily. The question of surface area changes had been considered, but it has been concluded that measurement of length was more satisfactory. The measurement of weight variation was too tedious for practical purposes. He had no opinion to offer regarding the administration of thyroid to children, although he appreciated the difficulties concerning the toxicity with its use.

The last paper before lunch was on

Sodium Morrhuate Solution

By G. W. G. SMITHERS

[ABSTRACT]

OLD (brown) samples of sodium morrhuate (one part) do not dissolve in warm water (ten parts) to give a clear solution. Extraction with ether removes a yellow oily liquid with acidic reaction and strongly fishy taste. The cloudiness in solution of old sodium morrhuate is due to this compound, which appears to be morrhucic acid. The addition of alkali produces a clear solution, apparently by suppressing hydrolysis. Oxidation probably occurs, but this is not considered to be the cause of deterioration of sodium morrhuate. The addition of 2 per cent. of benzyl alcohol effects an improvement, and the following

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formula is suggested to combine therewith the stabilising effects of alkali buffering to pH 9.0:—

Sodium morrhuate	5 gm.
Benzyl alcohol	2 mls
Boric acid	0.31 gm.
Sodium hydroxide	0.085 gm.
Freshly distilled water	to 100 mls

Dissolve the sodium morrhuate, by gentle warming, in 80 mls of water containing the boric acid and sodium hydroxide in solution. Cool and add the benzyl alcohol, shaking until dissolved. Sterilise (the containers being sealed ampoules or well-secured stoppered bottles) in an autoclave at 120° C. for thirty minutes. The containers should be well filled; the preparation remains bright if securely sealed. Loss of benzyl alcohol by evaporation results in marked turbidity.

It is concluded that the insolubility and darkening in colour of sodium morrhuate is due to hydrolysis and that it is inadvisable to make or stock large quantities. Sodium morrhuate should be kept in well-closed containers, stoppered bottles being most suitable. Solutions for injection should only be made from sodium morrhuate complying with the solubility test. The B.P.C. injection of sodium morrhuate (with 1 per cent. alcohol 90 per cent.) is not so satisfactory as that made to the above formula.

DISCUSSION

MR. HOOPER said he could confirm that it is not oxidation that is the trouble. If the sodium morrhuate is fresh and made straight away into a solution it gives no trouble. Benzyl alcohol is frequently used in his hospital as an anæsthetic.

MR. GARTSIDE inquired if there was any unsaponifiable matter in sodium morrhuate.

MR. STEPHENS asked as to the use of hydrogen peroxide or ozone as oxidising agents.

MR. SMITHERS said he does advocate the use of freshly prepared sodium morrhuate for preference, but thought the resuscitation of old samples was of interest. He pointed out that hydrogen peroxide is usually acid, and he had no experience of ozone. The former had been abandoned owing to the production of morrhucic acid.

Science Session

Thursday Afternoon, September 15

The first paper to be taken in the afternoon session, in the absence of the author, was read by Mr. Brindle, and was on

The Preparation of Lysol

By J. JACKSON

[ABSTRACT]

VARIOUS modifications have been proposed for the preliminary saponification process in the preparation of lysol, with some divergence of opinion as to their relative merits. This reflects the variation in the method directed in the different Pharmacopœias. According to the B.P., the saponification is carried out with hot aqueous alkali. The directions of the German Pharmacopœia require the addition of a little alcohol and the reaction is allowed to proceed in the cold, whilst the U.S.P. directs the addition of the cresol to the reaction mixture. The main objects of these modifications appear to have been to expedite the process as far as possible, and to evolve a method giving more or less reproducible results. It is proposed that the official process for preparing lysol be amended by dissolving the B.P. amount of potassium hydroxide (42 gms.) in 20 mls of water and adding 40 mls of industrial alcohol to the hot solution. Separation into two layers occurs at this stage (the lower one being probably an aqueous solution of potassium carbonate and hydroxide). This separation is immaterial, as on adding the linseed oil (180 gms.) a deep red solution is formed within two or three seconds after an initial shake. The reaction mixture is allowed to stand for fifteen to twenty minutes. The cresol (500 mls) mixes readily with the stiff mass of soap, and water is added to volume (1,000 mls). The final product is quite bright, and no source of external heat is required unless the heat of solution of the alkali is dissipated (as in making a small quantity, when an external source of heat is necessary to dissolve the potassium hydroxide). The twenty-minute period for saponification is an upper limit, as the product made after about ten minutes' standing normally

complies with the Pharmacopœial dilution test. Experiments show that with hot alkali the reaction was completed within eight minutes (at temperature of 74.5° C.) in the case of one sample of linseed oil and in two minutes (at 83° C.) with another oil. The inclusion of 4 per cent. of industrial spirit in the formula for lysol thus enables the process to be carried out "homogeneously" in less than twenty minutes.

The next two papers were presented by Mr. R. Maxwell Savage, as follows:—

Blood-Clotting Activity of Thrombin Surgical Dressings

By R. MAXWELL SAVAGE and W. P. CHAMBERS

[ABSTRACT]

THE method of determining the blood-clotting activity of thrombin adsorbed on the fabric of surgical dressings was simplified by the use of citrated blood as this extends the time for clot formation. The colour thereof is a qualitative guide to the distribution of the medicament. After numerous trials the following procedure was adopted:—

Circles of material are cut from thrombin lint by means of a punch $\frac{3}{8}$ in. in diameter to fit the bottom of a Gooch crucible. One mil of citrated blood is then run into a boiling tube immersed in a water-bath kept at the prescribed temperature (preferably 25° C.). The lint disc is suspended by a cotton thread below the water level but above the surface of the blood for not less than two minutes so that it may attain the water-bath temperature. The disc is then lowered into the blood and pressed down repeatedly during fifteen seconds with a glass rod to ensure thorough soaking. The reaction is allowed to proceed for the specific period (usually 8 minutes). The disc is then transferred to the Gooch crucible and overlaid with a disc of filter paper cut to the same size. The discs are arranged to lie flat and washed at once with four lots of 7 mls of normal saline solution which is drawn through by vacuum. After removal of unclotted blood, the lint disc with adherent clot is dried and the amount determined as nitrogen by the wet combustion (or Kjeldahl) process. The nitrogen retained by unimpregnated material is usually about 0.07 mgm. The table below shows the blood-clotting activity of the thrombin surgical dressing expressed in milligrams of nitrogen per square centimetre of fabric after subtracting blank determinations. The deep red colour of thrombin lint soaked in citrated blood contrasts with the almost white appearance of plain material after washing. The process breaks down with very strong doses of thrombin but works well in its simple form, giving an accurate measure of the amount of clot formed in a given time, which is what the clinician wants to know. The effect of the time of soaking varies with temperature. At 15° C. and 25° C. the amount of clot rises sharply at first and is still increasing at the end of sixteen minutes. At 37.5° no marked increase occurs after the fourth minute and less clot is formed at all times due to shrinking by syneresis. The temperature of reaction is an optimum at 25° C. and this is also suitable for assay on the ground of convenience and probable figure of natural clotting exterior to the body. Eight minutes' soaking is suggested for routine assays. The results show that there is an economic zone of thrombin activity, a drop below the usual strength being attended by large decreases in efficiency, whilst clots of probably unnecessary size are formed with even small increases. The best results are obtained with thrombin lint, gauze being distinctly inferior when using identical amounts of thrombin. Rabbit blood citrated with ten per cent. of a 2½ per cent. solution of sodium citrate in normal saline is most convenient for a large series of tests. Rabbit blood citrated with 15 per cent. of the solution is suitable for routine tests when the number of samples is small. The collection of 250 mls of blood from a sheep takes some twenty seconds, whilst 10 mls from a rabbit's ear may require a minute or so. Either form of blood

	Thrombin concentration	Clot mgm. N/cm.²	Thrombin concentration	Clot mgm. N/cm.²	Thrombin concentration	Clot mgm. N/cm.²	Thrombin concentration	Clot mgm. N/cm.²
Lint ...	1.69	0.025	2.08	0.031	3.95	0.256	11.2	0.796
Gauze...	1.56	0.018	2.52	0.006	5.15	0.141	12.4	0.666
Plaster cloth	1.20	0.061	2.38	0.102	4.75	0.192	10.4	0.386
Nainsook	1.03	0.004	1.95	0.042	3.96	0.077	9.0	0.354

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appears to be suitable and citrated blood may be stored in the cold (about 4° C.) for two days without significant differences. However, comparative tests should be made with the same lot of blood in triplicate on a 3 by 3 Latin square.

Sterilisation of Surgical Dressings by Heat from High-Frequency Electrical Fields

By R. MAXWELL SAVAGE

[ABSTRACT]

PRELIMINARY experiments showed that cotton dressings heat rapidly when subjected to high-frequency oscillations of six metres wavelength when set up between electrodes at several thousand volts. The heat is generated under suitable conditions equally throughout the dressings. Bakelised paper cylinders were found to be suitable material for the construction of the container for the dressings. End plates of the same material are necessary, as steam condensation by metal leads to incomplete sterilisation of adjacent material owing to heat loss. The rôle of water in the sterilisation process is profoundly important, and the main problem is to counteract moisture loss. In practice two methods were found to ensure complete sterilisation: (1) the dressing (e.g. lint roll) is wrapped in a cloth damped with water and (2) the initial air pressure is increased to 5 lb. per sq. in. above atmosphere. On switching on the high-frequency oscillator the pressure starts to rise and increases by 20 lb. per sq. in. in a few (about four) minutes. The expansion of air in the drum-type container accounts for about 5½ lb. per sq. in., the balance being due to steam at a temperature of 115°-120° C. The pressure is kept within ½ lb. by de-tuning or varying the filament resistance.

The table below shows typical results without and with added air and water. It will be seen that sterilisation almost always occurs inside the dressing, but the outside (though hotter) is less reliably sterilised when the steam is not saturated (experiments 1 to 4). Experiment 7 shows that the new process is capable of sterilising a dressing completely by maintenance of full pressure of saturated steam (=120° C.) for ten minutes. No other method is capable of delivering a completely sterilised dressing in such a short time. In addition, this emerges no wetter or even rather drier than it went in.

The drums of bakelised paper or fabric are now a commercial article and need have no openings. Packing tightly with dressings is a positive advantage. From the economic point of view the main cost is the oscillator, but many hospitals already have such apparatus. Energy consumption favours high-frequency sterilisation as the heat used is related to raising the cotton and water through so many degrees. The survey is intended as a description of possibilities which may eventually become translated into practical use, and not as an attempt to describe a commercial process of sterilisation.

Bacteriological Results of H.F. Sterilisation of Lint Rolls

	Expt.1	Expt.2	Expt.3	Expt.4	Expt.5	Expt.6	Expt.7	Expt.8	Expt.9
Position in roll:									
Centre...	—	—	—	—	+	—	—	—	—
Midway	+	+	+	+	—	—	—	—	—
Outside	+	+	+	+	+	—	—	+	+
Pressure attained.	20 lbs. per sq. in.	20 lbs. per sq. in.	20 lbs. per sq. in.	20 lbs. per sq. in.	20 lbs. per sq. in.	20 lbs. per sq. in.	25 lbs. per sq. in.	25 lbs. per sq. in.	20 lbs. per sq. in.
Time at full pressure.	20 mins.	15 mins.	15 mins.	10 mins.	20 mins.	10 mins.	10 mins.	10 mins.	5 mins.
Added water ...	None	None	None	None	Wet lint, double wrapping	Wet lint, single wrapping	Wet lint, single wrapping	None	Wet lint, single wrapping
Added air ...	None	None	None	None	None	None	5 lbs. per sq. in.	5 lbs. per sq. in.	None

DISCUSSION

MR. STEPHENS asked what proportion of electrical energy could be made to appear as heat energy.

MR. SAVAGE said the proportion was high, say 50 per cent.

The penultimate paper, which was read by the author, was

Magnesium Carbonate and Oxide

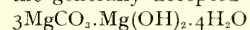
By J. S. F. GARD

[ABSTRACT]

THE grades of magnesium carbonate and magnesium oxide produced depend mainly on physical rather than chemical properties. A case in point is the production of a carbonate with an apparent specific gravity of 0.3 to 0.4 between mag. carb. levis (0.1) and mag. carb. pond (0.6) for use in stomach powder. The two standard grades are difficult to blend with precipitated chalk (0.35 to 0.45), sodium bicarbonate (1.1) and bismuth carbonate (0.4), and tend to separate again in transport and handling. The 0.3 to 0.4 grade which is now available effects a great improvement in both respects.

Since 1840 the greater part of the world's supply of magnesium carbonate and oxide has been made by the process patented by Hugh Lee Pattinson. Dolomite (or magnesium limestone) is burnt to oxides and the "lime" is "slaked" to yield hydroxides. These are suspended in water and kiln gas (rich in carbon dioxide) is passed through the liquor converting the magnesium hydroxide into the soluble bicarbonate and precipitating calcium as insoluble carbonate. The filtered solution on boiling precipitates insoluble basic magnesium carbonate, the density of which depends upon strict control of precipitation conditions.

The chemical composition of the basic carbonate is remarkably constant and seems to be a combination of normal carbonate and hydroxide with water of crystallisation attached in accordance with the generally accepted formula:—



The proportions of the formula are near enough for all practical purposes to the typical analysis of the bulk of carbonate on the market, which is very uniform in composition, viz.:—

	Formula	Analysis
Magnesium oxide, per cent.	... 42.40	42.81
Carbon dioxide, per cent.	... 34.55	35.13
Combined water, per cent.	... 18.85	23.56 22.06
Water of crystallisation, per cent.	... 4.71	

The principal impurities in commercial supplies are lime, sulphates, chlorides, alkalies and iron, the water used in manufacture being the source of sulphates and chlorides owing to the cake of basic carbonate retaining 85 per cent. of water, which has to be dried out by evaporation. The proportion of calcium carbonate present is usually less than ½ per cent. (as CaO) as compared with the B.P. maximum of 0.8 per cent.

The impurities in magnesium oxide are naturally 2½ times as great, but the greatest trouble is the B.P. limit of 5 per cent. loss on ignition. The manufacturers pack the product well within the limit but the speed at which the oxide absorbs moisture and carbon dioxide is not generally realised. Thus oxide drawn from a ½-lb. tin (showing 0.65 per cent. ignition loss) gave 7.89 per cent. loss on ignition when left for three days in an unstoppered bottle. Mere emptying of the contents of the tin with leisurely mixing and putting into sample bottles for analysis resulted in loss on ignition becoming 3.42 per cent., which point is emphasised as it may save trouble with inspectors of foods and drugs.

Mag. carb. levis owes its low bulk density to entrapped air, its actual specific gravity being 2.15 against 2.18 for mag. carb. pond. The oxides vary in density according to the carbonates from which they are made, but the heat treatment also affects this. The higher the temperature the heavier and less active is the resultant oxide, and this sintering effect can be extended until the product is dead burnt and almost chemically inactive. Texture is not subject to official requirements and variation appears to be a matter of individual choice. Mag. carb. levis has an ultimate particle size ranging from 1 to 5 μ and passes readily through a 300-mesh sieve. The light oxide is equally fine, but owing to its sticky nature passage is difficult through sieves finer than 100 mesh.

The free-running property of light magnesium carbonate is not applied as much as it might be. Thus 1 per cent. added to sodium chloride suffices to prevent any tendency to dampness and caking, and this advantage could be extended to health salts and other powders. Its high absorptive capacity renders it an ideal carrier for perfumes and other liquids without appearing damp. Light carbonate in block form is an excellent absorbent for drying crystals, starch, etc. Magnesium

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oxide can be used for making "cream of magnesia" without double decomposition by suspending the oxide in the correct amount of water and passing the suspension through a colloid mill to form a superior product.

Magnesium trisilicate is a therapeutic agent which has the advantage over the usual antacid compounds that it cannot cause alkalosis. Its neutralising action is slow extending over the period between meals. A new cosmetic base consists essentially of light carbonate of magnesia in which each particle is coated with magnesium stearate, the latter amounting to about $3\frac{1}{2}$ per cent. This has good adherence and is waterproof. Its high absorptive capacity for perfume makes it an excellent substitute for the more expensive magnesium and zinc stearates.

DISCUSSION

MR. BRINDLE asked what tests were used for the suitability for use of the magnesium oxide in preparing mist. mag. hydrox.

MR. A. J. JONES asked for details regarding the moulds referred to by the author. It was difficult to understand, he said, why these growths should form on magnesium preparations. He requested information on the roasting of the oxide.

MR. HEADING asked for details of fineness of the magnesium oxide powder referred to in the paper.

MR. HOOPER inquired if temperature and drying technique had any bearing on the density of the final product.

In reply to another question, MR. GARD gave details of determining the specific gravity. Concerning the preparation of mist. magnes. hydroxid., the method he adopted was as follows:—A weighed quantity of magnesium oxide was shaken with water at 60° C. in a stoppered bottle. The mixture was then passed through an emulsifier twice and left overnight in a bottle. It was tested next morning, and the amount of supernatant liquid recorded. This was the standard method used for testing the suitability of magnesium oxide for preparing the mist. magnes. hydrox. Mr. Gard had had no trouble in storage of the magnesium oxide. The mould growths referred to were actually found on the paste-board which was placed next to the metal cap. It was believed that the growth was due to some constituents in the board, not to the magnesium. As regards the roasting of the oxide, this must be carried out in tubes heated electrically or in some other suitable manner, but ignition should not be used. The fineness of the oxide and carbonate, said Mr. Gard, was dependent upon precipitation; drying appeared to have no effect on fineness.

The last paper, which was read by Mr. Moorhouse, dealt with

Dry Extract of Stramonium

By R. C. KAYE and A. T. MOORHOUSE

[ABSTRACT]

AN investigation has been made of the claim that commercial extracts of stramonium made with 70 per cent. alcohol were more satisfactory than those prepared with 95 per cent. alcohol owing to (i) the extract (with starch diluent) could be obtained in fine powder and (ii) without all traces of "oiliness." Three batches of stramonium (of alkaloidal strength (I) 0.336 per cent., (II) 0.26 per cent. and (III) 0.33 per cent.) were used as material for the investigation.

It was found that "defatting" the soft extract with light petroleum (as in the U.S.P. XI process) removes all "oiliness" from extracts made with 95 per cent. alcohol. In addition there is no difficulty in incorporating the residual starch or powdering the finished extract. The yield of extractive to light petroleum represented about 20 per cent. of the total alcoholic extractive matter. The defatted extracts were non-hygroscopic, no change being observed on exposure to the atmosphere for several weeks.

Attempts were made to prepare extracts which approximated specimens of commercial extracts made with 70 per cent. alcohol and using starch as a diluent. Care was taken to control the temperature of the three different batches of extract during evaporation and drying (under reduced pressure) so that this did not exceed 80° C. In all three cases the low temperature extracts became sticky and formed soft masses after ten days' exposure to the atmosphere. Drying at 120° C. for one hour gave extracts which showed only a slight tendency to cake and closely resembled the commercial specimens. It thus appears that drying at a high temperature causes some change in the nature of the extract, the tendency to cake depending upon the temperature used for drying. Extract dried

at 150° C. showed still less tendency to cake than when dried at 120° C. Thus excessive heat in drying enables extracts made with 70 per cent. alcohol to keep in a more or less satisfactory manner. No trace of "oiliness" was present in any of the extracts made with 70 per cent. alcohol. The table below records results obtained by exposing several types of commercial extracts (spread out on watch glasses) to atmospheric conditions. Samples I and II quickly became sticky and became dark brown in colour and useless for dispensing purposes. Sample III was usable after two weeks' exposure, but caked badly on prolonged exposure. Sample IV had been diluted intentionally with powdered stramonium leaf, though some starch was present. It remained reasonably friable. Samples V and VII showed the presence of oily drops in all extracts made by the Addendum process. These were good samples and suitable for dispensing, any small lumps formed on exposure being easily friable. Colour change was slight to a darker green. The behaviour of sample VI as regards caking made it doubtful whether 95 per cent. alcohol had been used as solvent. All the extracts kept satisfactorily in well-closed containers.

It is concluded that 70 per cent. alcohol is unsuitable for use in preparing dry extract of stramonium and that the criticism that 95 per cent. alcohol produces an objectionably "oily" product is not substantiated.

Ext.	Details of manufacture	Appearance	Changes on exposure
I	Alcohol (70 per cent.). Dried at about 60° C.	Greenish-brown powder. Traces of cellular matter present.	Caked in 36 hours. Very sticky in one week.
II	Alcohol (70 per cent.). Dried at about 80° C.	As above.	As above.
III	Alcohol (70 per cent.).	Green powder. Traces of cellular matter present.	Slightly caked in three days. Badly caked in one month.
IV	Alcohol (95 per cent.). Addendum process.	Green powder with many lighter green specks. Much tissue present. No oily drops.	No change in three days. Caked in two weeks.
V	Alcohol (95 per cent.). Addendum process.	Green powder with slight bluish tint. Traces of cellular matter and many oily drops.	No change after four months.
VI	Alcohol (95 per cent.). Addendum process.	Almost black granular powder. Traces of cellular matter and oily drops present.	Caked in one week.
VII	Alcohol (95 per cent.). Addendum process.	Green powder. Traces of cellular matter and many oily drops.	Tendency to small lumps after four months.

DISCUSSION

MR. STEPHENS said he had similar experience in extracting gummy matters with lower value alcohol. It was desirable to make alcoholic extracts for dilution with higher alcohol than would be in the finished tincture.

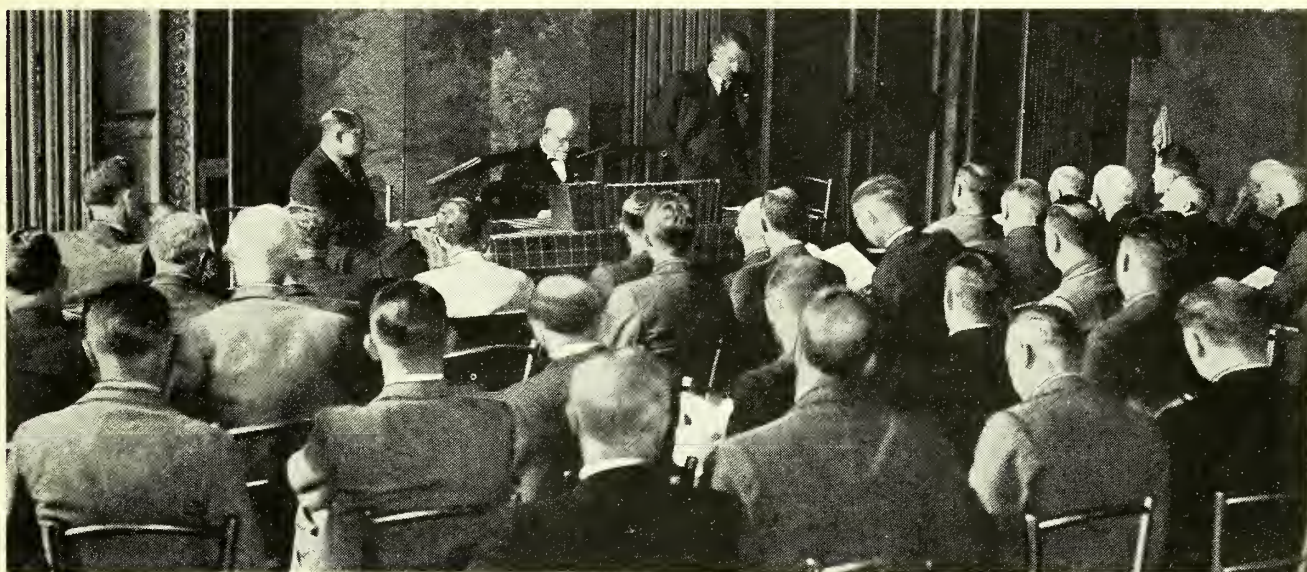
MR. DEANE mentioned that the variations in extracts depend to some extent on the amount of alkaloids and other extracted matter.

MR. MOORHOUSE said he had not come across a batch of stramonium which gave an oily extract if made with 95 per cent. alcohol. The authors of the paper had tried to make an extract with the minimum of oiliness without defatting.

THE CHAIRMAN said: "One begins to wonder if dried extracts should be continued. All are standardised on the alkaloidal content; therefore the question would seem to be, why not use alkaloid? However, we are pharmacists, and if the pharmacologists want the extract it is up to us to prepare it in the best manner possible."

MR. HILL, in declaring the session closed, conveyed the thanks and compliments to the authors for the presentation of papers. He had been greatly impressed by the number of young men coming forward with papers. The Science Section was the centre and soul of the Conference, and one feature of this year's meeting was the greater number of members at the Conference present at the Science Sessions. He trusted that the numbers would continue to grow.

BRITISH PHARMACEUTICAL CONFERENCE 1938



SCIENCE SESSION.—Mr. C. E. Corfield, London (secretary of the Conference), addressing the meeting; Mr. J. Rutherford Hill, Edinburgh (chairman of the Conference), and Mr. J. C. Penman, Sunderland, on the platform.



CONFERENCE CHAIRMAN.—Mr. J. Rutherford Hill, O.B.E., arriving for official photograph.



BETWEEN SESSIONS.—Messrs. T. W. Dunsford, Torquay, and D. J. Williams, Bath; Miss Dobie, Birkenhead; Mr. T. Miller, Manchester; and Dr. F. W. Crossley-Holland, London.



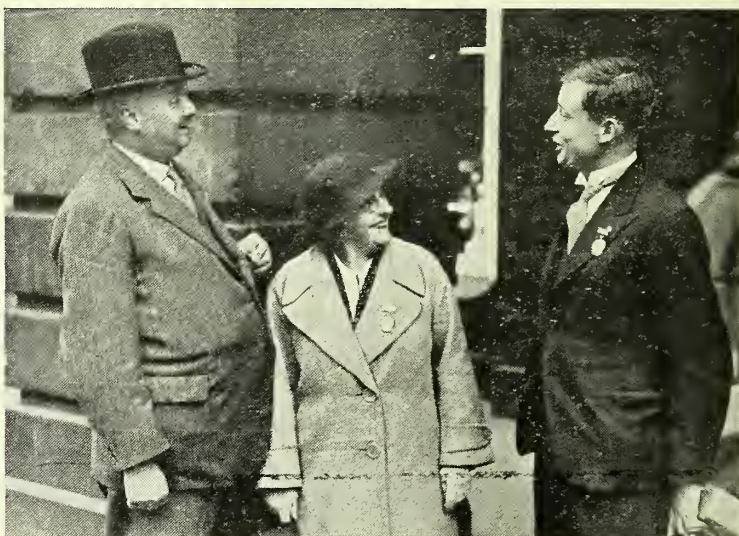
ARRIVING AT THE MUSIC HALL.—Mr. R. K. Gibson and Mrs. G. Mackie, Edinburgh (left); and Mr. J. B. Stock, Colchester, and Miss Purdie, Edinburgh (right).



BRITISH PHARMACEUTICAL CONFERENCE 1938



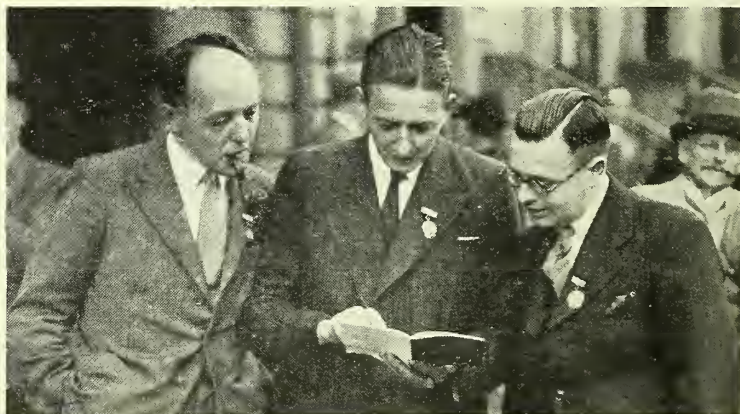
Miss O. W. Scarlett, Edinburgh, and Mr. C. Gunn, Leicester, arriving for one of the sessions.



Mr. and Mrs. H. M. Hirst, Scarborough, and Mr. E. Neville-Brown, South-West London, enjoying a joke.



Mr. and Mrs. L. H. Lester, Nuncaton, and Mr. and Mrs. C. B. Harrison, London, outside the Music Hall.



Messrs. W. H. Rudd, Norwich; W. L. Thomas, Beaumaris; and T. N. Dixon, discussing the programme.

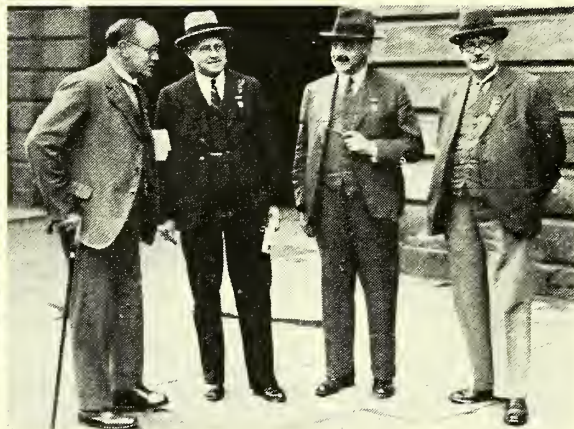
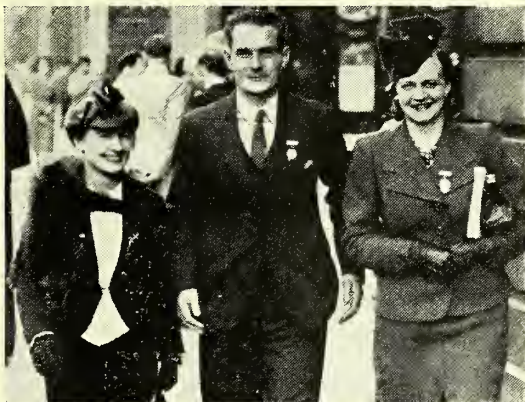


Mr. T. B. Robinson, Bolton (*centre*), goes over the programme with Mr. and Mrs. J. S. Walmsley, Bolton.



Messrs. L. W. Lester, London; W. T. Pratt, London; and G. F. Merson, Edinburgh.

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Miss Vokes, Hull; Mr. F. M. Wrothwell, Kirby Moorside; and Mrs. Brocklehurst, Hull, arriving for opening session. *Left*, Mr. G. H. C. Rowland, Wargrave.

Messrs. R. McAdam, Glasgow; A. Cairns, Edinburgh; H. W. Wallis, Chester; and J. B. Mitchell, Edinburgh.



Messrs. L. G. Meachim, Southport; H. Davis, Harrow; and W. E. Phillipson, Manchester.



Messrs. E. Walters, Manchester; J. F. Franklin, Manchester; A. E. Thorpe, Manchester; and D. Lewis, Llanrhystyd.



GOLF COMPETITORS.—Messrs. F. G. Wells, London; H. K. Craxton, Edinburgh; and J. Davis, South Wales, at Luffness.



EXAMINING THE SCORE.—Messrs. D. T. Jones, London, and R. Garner, Rhyl at the Luffness meeting.



GOLFERS ALL.—Messrs. G. F. Merson, Edinburgh; L. W. Lester, London; J. Miller, Manchester; F. G. Wells, London; H. Stout, Edinburgh; R. M. McCrone, Coatbridge; W. Gray, Walthamstow; T. Stephen Jones, Rockferry.

British Pharmaceutical Conference, 1938

Social Side

WOMEN PHARMACISTS.—Mr. Rutherford Hill, in his opening address, reminded the Conference that in the early days of the Pharmaceutical Society women were not admitted to membership, and that he himself had in Edinburgh some forty-five years ago moved a resolution that women should be allowed to become members. This was news to many women present, and added to the interest and delight with which they had listened to the address. At the tea party which followed, Miss E. B. Blundell, president of the National Association of Women Pharmacists, welcomed some fifty qualified women from many parts of the country, including the following:—

London.—Mrs. Cornfield, Mrs. Neville Brown, Miss Hodgkinson, Mrs. Skinner, Miss Harnery and Mrs. Irvine; *Edinburgh.*—Miss Grant Bragg, Miss Purdie; *Kirriemuir.*—Miss Forc; *Manchester.*—Miss Roberts; *Hastings.*—Miss Lynch; *Northern Ireland.*—Miss Forrest; *Liverpool.*—Mrs. Tristram and Miss Dobie.

UNIVERSITY RECEPTION.—By arrangement with the Students' Union Committee a reception was held in the University Union on Wednesday evening, September 14. The guests were received by Professor Sydney Smith, dean of the faculty of medicine, University of Edinburgh. In spite of the fact that the day had been spent by many of the Conference visitors in sports, sightseeing and tours, the reception was very well attended. Almost 600 were present, and in consequence the floor of the dance hall was more than comfortably full. A number of guests filled the gallery of the hall during the dancing. Throughout the evening a running buffet was provided for the visitors. C. W. Mackenzie's band played for dancing.

LADIES' EXCURSIONS.—The rule as to restriction of the ladies' excursions solely to ladies was rigidly enforced this year, so much so that even a male photographer attached to the local press was challenged for attempting to board one of the coaches. On Tuesday morning, September 13, the ladies were taken to Edinburgh Castle, where the marvellous views over the Forth on one side and to Arthur's Seat on the other were admired, and many lingered long and reverently in the precincts of the wonderful Scottish War Memorial erected on the Castle Rock. Thereafter those who had not already done so inspected the historical and imposing St. Giles Cathedral thence proceeding down the Royal Mile to Holyroodhouse and round the King's Park, returning for luncheon at the Assembly Rooms. The afternoon tour was through the romantic and picturesque Scott country to Peebles. Rain threatened, and there was a sharp shower while the party were in the celebrated Peebles Hydrophatic Hotel. The visitors were welcomed by Lord Tweedsmuir's sister. Like her brother (John Buchan), this lady, who writes under the pen-name of "O. Douglas," is the author of many popular novels with a Scottish flavour.

The tour on Wednesday morning was through the Covenanters' country, and to prepare the visitors an inspection was first made of Greyfriars Church, where in 1638 the National Covenant was signed. Then came Bonnyrigg and the old church of Cockpen, where the Laird of ballad fame was supposed to have worshipped. For the Conferencers, however, perhaps the most thrilling part of the day's proceedings was a sight of the second oldest chemist's shop in Scotland, the pharmacy in which Mr. Rutherford Hill served his apprenticeship. This was at Lasswade, and the present proprietor of the pharmacy had risen to the occasion and had decorated his shopfront with flags and rosettes. It appears that Mr. Rutherford Hill's apprentice master was also postmaster, and Mr. Hill—an industrious apprentice as one can imagine—acquired the art of post office routine and telegraphy so quickly that he was awarded the Queen's Bounty in about a month. All-round praise for the charm and efficiency of the Ladies' Committee was heard from every quarter, and cigarettes and Edinburgh rock were lavished on the lady visitors each time they went abroad. After the Peebles tour each lady was presented with a beautiful original etching by A. Simes of "The Vennel," one of the historical thoroughfares in old Edinburgh.

The last of the ladies' excursions was on Thursday morning and took the form of a tour of Greater Edinburgh. It included a special visit to Holyroodhouse Palace, where guides specially retained by the Local Committee showed the Conferencers the historic rooms and explained the traditions associated with a former Mary, Queen of Scots. Thereafter a picturesque run through the country immediately surrounding the Scottish capital (before luncheon at the Assembly Rooms) was voted as enjoyable as any the ladies had experienced.

THE SUPPER-DANCE at the Assembly Rooms and Music Hall was characterised by a fine display of Highland dancing—six men and two women. They demonstrated, to the enthusiastic delight of the audience, how the foursome and eightsome reels should be danced, and the lightness of toe in complicated sword dances delighted Scot and Sassenach alike. The audience was in a particularly receptive mood and voiced their enthusiasm in more or less successful attempts at community singing.

THE CONFERENCE EXCURSION.—So far as weather was concerned, the only dark spot was the rain on the all-day excursion. The days had been fine until Thursday evening, and hopes were high of a fine day on Friday. But alas! these hopes were unfulfilled, for a persistent downpour the whole day marred the sight-seeing but by no means damped the spirits of the six hundred who filled the coaches to view the beauties of the Perthshire Highlands. One group of coaches went first by Callander, where the occupants had lunch, and then on to Gleneagles, where they had tea. The other group reversed the process, the coaches passing one another on the banks of Loch Earn, where, singularly enough, the only sunshine of the day was experienced. The sun actually shone while the company were passing along the lovely Loch-side road which leads to (and from) Lochearnhead. The relentless rain seemed to conjure up counter-efforts for enjoyment, and one coach in particular, containing seven councillors of the Pharmaceutical Society and seven qualified women pharmacists, was persistent in defiance of the elements with song and jest. The only pity was that the beauty of the hills and lochs and valleys was shrouded in a mist, which must have been a disappointment to those who were seeing Crieff and Comrie, Gleneagles and Loch Earn for the first time.

DANCE AND CABARET.—The definite close of all proceedings came with the dance and cabaret on Friday evening, September 16. The fact that the gathering was so large indicated the reluctance with which the visitors parted. Dancing seemed more energetic than ever, particularly when the immensely popular "Lambeth Walk" was announced. In an interval a display of ballet dancing was given by a local school, after which Mr. Rutherford Hill again took charge and presented gifts to representative members of the Local Committee who had done so much for the success of the Conference. Special thanks were tendered to Dr. Blackie (chairman), to Mr. C. G. Drummond (secretary) and his assistant (Mr. W. A. Beattie). "But the ladies," said Mr. Rutherford Hill gallantly, "outshone the men," and mementoes of the Conference were accorded to Mrs. G. F. Merson (chairman of the Ladies' Committee) and to Miss N. Brew (the secretary) for excellent and much-appreciated work. Then Mr. Hill asked Mrs. Merson to present the prizes to the successful sportsmen (and sports-women), announced by Mr. P. Nisbet, as follows:—

GOLF.—*Edmund White Trophy.* W. F. Kemp; *Scratch.* W. E. Phillipson; *Second prize.* R. P. Merritt; *Third prize.* N. H. Burns; *Fourth prize.* L. W. Lester; *Fifth prize.* Dr. D. T. Davies; *Ladies.* Mrs. A. Fairbairn and Mrs. J. D. Lunan. **PUTTING.**—*Gentlemen.* (1) T. E. Gray, (2) H. C. Shaw; *Ladies.* (1) Mrs. Watson, (2) Miss M. Button. **BOWLS.**—*Scotland.* 19 (skip, P. Nisbet); *England.* 8 (skip, J. Milner). **BOUNCE GAME.**—Mr. Anderson's rink.

Dancing was resumed, and was continued until the early hours of the morning, when farewells had perforce to be finally made. Thus ended one of the largest and most successful conferences ever held.

British Pharmaceutical Conference, 1938

Closing Session

The closing session of the Conference was held in the Assembly Rooms on Thursday afternoon, September 15. Mr. J. Rutherford Hill was in the chair.

THE CHAIRMAN called upon the secretary, Mr. C. E. Corfield, to read the annual report.

ANNUAL REPORT

The following are the principal passages in the seventy-fifth annual report of the Executive.

The Conference consists at the present time of the members, honorary members and student-associates of the Pharmaceutical Society of Great Britain, together with the members of the Pharmaceutical Society of Northern Ireland and eighty-five members at home and abroad who have been elected by the Executive. The number of members elected by the Executive is twenty-four less than in 1936, when their subscription was raised from 10s. 6d. to £1 1s.

It is with great regret that the Executive report to the members at this meeting the death of Mr. T. E. Lescher, O.B.E., the esteemed and popular chairman of the Conference during the year 1937, when the meeting was held in Liverpool. Mr. Lescher had for many years been an enthusiastic member of this Conference, taking always a great interest in every side of its work. For some years he was a member of the Executive Committee, and, prior to his election as chairman in 1936 at Bournemouth, he had served as its honorary treasurer since 1934. His sudden death was felt deeply in many circles, and he will be missed not only in his industrial sphere connected with pharmacy, but also in the scientific and social activities of future Conferences.

The tenth volume of the "Quarterly Journal of Pharmacy and Pharmacology," published in four parts during the year, constitutes the Year Book of Pharmacy for 1937.

The Conference Research List has been revised by a sub-committee of the Executive and is included for publication in this report. Subjects which in the opinion of the Executive have received sufficient attention for the present have been deleted, and among the new subjects added are problems relating to acriflavine emulsion, adsorption analysis, ergot mixtures, hydrogen peroxide solutions, Brazilian jalap, estimations of the sex hormones and the degree of fineness of some official powders such as barium sulphate and bismuth carbonate.

The following subjects require examination or further investigation:—

Aconitine.—The composition of commercial aconitine and the methods of standardising aconitine and preparations of aconite.

Acriflavine emulsion.—An investigation of the antiseptic properties in different circumstances of acriflavine emulsions prepared by different methods.

Alcohol in galenicals.—Suitable limits for the alcohol content of concentrated infusions and fluid extracts of the B.P.C.

Antiseptics.—The difference in action, if any, between sparingly soluble antiseptics (such as the more complex phenols) in solution and suspension.

Apiol.—Liquid apiol of commerce with a view to setting up a standard for this article so as to reduce the variation, which appears to be very considerable.

Barbitone derivatives.—Qualitative tests for the distinction of barbitone derivatives.

Belladonna and hyoscyamus.—A process for the preparation of dry extracts of belladonna and hyoscyamus without added leaf.

Belladonna plaster.—Assay processes for plasters made with a soap basis and for those made with a rubber basis.

Bismuth salts.—The causes of discoloration of bismuth salts on exposure to light.

Calamine.—A working process for the preparation of calamine of uniform and standard colour.

Cantharidin.—The determination of cantharidin in the beetles and in galenicals.

Chlorophyll.—The composition of commercial chlorophyll.

Chromatographic Adsorption Analysis.—Investigations of the possible applications of this method to drug analyses.

Colloidal solutions.—Practical methods or formulae for the preparation of colloidal solutions of elementary substances which are believed to possess valuable therapeutic effects.

Colouring matters.—(a) The colours suitable for pharmaceutical products and their stability on keeping; (b) The processes for determining the tinctorial value of cochineal; (c) Comparison of the tinctorial values of litmus, cudbear and orchil.

Concentrated infusions.—The means and substances used in the preservation of concentrated infusions.

Creosote.—The composition of medicinal creosote.

Crude drugs.—The significance of the official limits for "other organic matter" in unground drugs and methods by which the proportion of "other organic matter" may be determined in the same drugs in the form of powder.

Datura metel.—The nature and composition of the alkaloids of *Datura metel*.

Digitalis.—(a) A comparison of the results of digitalis assay by physiological and colorimetric methods with clinical effects; (b) The stability of aqueous solutions containing the glycosides of digitalis.

Dilute ointment of mercuric nitrate.—A method for the assay of mercury in this ointment and in other ointments containing paraffins.

Disinfectants.—Formulas for disinfectants containing halogen derivatives of phenols.

Drugs in ultra-violet light.—The behaviour of drugs and galenicals when exposed to ultra-violet light and the value of such observations for the identification of drugs and their determination in preparations.

Emulsifying agents.—Comparison of the emulsifying powers of different emulsifying agents under different conditions of preparation.

Ephedra.—The determination of ephedrine and pseudo-ephedrine in ephedra herb and the liquid extract prepared from it.

Ephedrine.—Methods are required for the determination of ephedrine in tablets containing ephedrine with other alkaloids and synthetic basic ingredients.

Ergot.—A method is required for preparing a liquid extract of ergot containing in standardised proportions the maximum amount of ergometrine obtainable from the drug and a minimum of ergotoxine and suitable for administration in mixtures.

Extracts.—(a) The effect of varying pH on fungoid growth in aqueous extracts; (b) The effects produced by various methods (e.g. evaporation *in vacuo*, in open air, etc.) of concentrating percolates and other solutions of extractive matter, more especially as they affect the composition of their constituents; (c) Figures for the relation between the yields of unstandardised extracts and the weights of the drugs from which they are made; (d) The extension of the principle of preparing standardised liquid preparations by dissolving a standardised solid extract in alcohol, as adopted for the cinchona preparations in the B.P. 1932, to other drugs; e.g. ipecacuanha, ergot and nuxvomica.

Extraction of crude drugs.—(a) The extraction of crude drugs for the purpose of collecting data as to the relative proportions of active principle and inert material in progressive fractions with a view to determining the economic limits for extractions; (b) Data of the amount of extractive yielded by drugs by various menstrua, e.g. alcohol, water, ether, etc.

Extract of liquorice.—The determination of the characters of genuine liquid extract of liquorice.

Gland products.—Methods for the identification of animal substances and tissues in desiccated powder form and the possibility of applying pharmacognostic technique for the detection of adulteration, etc.

Glycerophosphates.—An examination of the effect of varying proportions of the α and β modifications on the stability of the compound syrup of glycerophosphates.

Gums and mucilages.—Methods for the identification of these in mixtures are required.

Hydrastis.—Examination of the relative merits of different methods of standardising the B.P.C. extract and liquid extract of hydrastis.

Hydrogen peroxide solution.—Investigations to determine the most suitable preservative to stabilise this preparation.

Injections.—(a) Improved formulae for active injections of ergot and digitalis; (b) A concentrated form of injection of sodium chloride and acacia.

Iodised oil.—Suitable processes for the preparation of products containing a high proportion of iodine in oil.

Jalap root.—A method for detecting powdered Brazilian Jalap when admixed with or substituted for Vera Cruz Jalap, and a method for detecting the Brazilian Jalap resin.

Lobelia.—The determination of the total alkaloids of lobelia and its galenical preparations.

Local anaesthetics.—Qualitative tests for the distinction of local anaesthetics.

Magnesium oxides and carbonates.—The composition of and impurities in commercial magnesium oxides and carbonates.

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Medicinal dyes.—Suitable qualitative or quantitative tests for controlling the purity of several organic dye-stuffs used as colouring agents or for their therapeutic properties, viz., Bordeaux-B, Scarlet Red, Brilliant Green, Methyl Violet, etc.

Mistura.—The effect of storage upon the stability of dispensed mixtures containing preparations of vegetable drugs, etc., with a view to formulating recommendations on the use of concentrated mixtures and mixtures not freshly or recently prepared.

Mucilaginous seeds.—The historical characters of certain medicinal mucilaginous seeds of the orders, Cruciferae, Labiatae and Plantaginaceae.

Oestrin.—Investigation of the possibility of chemical methods of assay for dihydroxyoestrin benzoate, ketohydroxyoestrin and trihydroxyoestrin.

Ointments.—The possibilities for the use of hydrogenated fats and of cetyl alcohol for the preparation of ointment bases.

Peptone.—The composition of "peptones" suitable for hypodermic injection and other purposes.

Pill coatings.—Formulas for coatings for pills and tablets which will resist wholly the action of gastric secretions and dissolve in the contents of the small intestine, and at the same time have a sufficient degree of expansibility to guard against bursting under normal changes of temperature.

Potassium guaiacolsulphonate.—The determination of potassium guaiacolsulphonate.

Powders.—Standards are required for the bulkiness of powders such as barium sulphate, magnesium carbonate and bismuth carbonate in the dry state and in suspension.

Preservatives.—The use of benzoic acid, benzoates and hydroxybenzoates as suitable preservatives for pharmaceutical preparations.

Purgative drugs.—An examination of the methods of detection of drugs containing oxymethylantraquinone derivatives in mixtures.

Quinine.—A method for the preparation of ammoniated quinine tablets.

Readily carbonisable substances.—The sulphuric acid test for "readily carbonisable substances" in organic chemicals with a view to confirming its value as a practical test for purity.

Rhubarb.—Tests for distinguishing East Indian and rhapontic rhubarb and a method for the determination of rhapontic rhubarb in powdered rhubarb.

Senega preparations.—Means of preventing the formation of deposits in preparations of senega and tests to show that they are of full strength and free from foreign saponin.

Senna pods and leaves.—An examination of the active constituents. Tests are required to distinguish between preparations made from the leaves and those made from the pods.

Silver compounds.—The composition of and an investigation of the relative therapeutic actions of colloidal silver compounds and silver salts.

Sodium morrhuate.—The preparation and standardisation of sodium morrhuate and solutions of sodium morrhuate for injection.

Solubilities.—Figures for the solubilities of a large number of pharmaceutical inorganic and organic chemicals in different solvents.

Solvents.—An investigation of the suitability of new organic solvents for use in making medicinal products and in analysis.

Specific gravities.—Figures for the specific gravities at 20°/20° C. of numerous pharmaceutical substances and preparations.

Sterilisation.—(a) An examination of the drugs which are given by injection in order to show (1) how far they are injured by heat sterilisation in aqueous solution, and (2) the stability or otherwise of aqueous solutions on storage. (b) The best type of material for apparatus used in the preparation of sterilised water for intravenous injection.

Storage.—(a) The effect of light on the physiological activity of quinine salts, apomorphine and other substances which become coloured on exposure or are readily oxidisable, with special reference to the conditions of storage; (b) The absorption spectra, visible and invisible, of the various types of glass used as containers.

Strophanthus.—Comparison of the results obtained by colorimetric tests and physiological assay.

Syrup of iron phosphate with quinine and strychnine.—An examination of Easton's Syrup with a view to the prevention of colour.

Tablets.—Practical methods are required for the standardisation of medicaments when exhibited in the form of tablets.

Tin oxide.—The composition of the compounds of tin suitable for internal administration.

Tragacanth.—The variability of powdered tragacanth and the elaboration of a standard method by which the purity of this drug may be controlled.

Valerian.—(a) The active principle of valerian root and an investigation of the difference in constituents of the British root and that from the Continent. (b) The preparation of a so-called odourless liquid extract of valerian.

Volatile oils.—Formulas are required for the preparation of non-poisonous antiseptic solutions, having high Rideal-Walker coefficients, containing aromatic oils.

Twenty-six papers have been read and discussed at the science meetings. The Executive wish to thank the authors for their contributions, which have been the means of bringing

before the Conference most useful and interesting investigations and conclusions.

Names of members to form the Executive have been recommended by a subcommittee appointed by the present Executive, and a proposal will be made at this meeting that the following officers be appointed for the year 1938-39:—

Chairman: J. Rutherford Hill, O.B.E.; **Vice-Presidents:** W. A. H. Naylor, J. F. Tocher, E. H. Farr, E. S. Peck, D. Hooper, W. Kirkby and C. A. Hill; **Vice-Chairmen:** F. W. Gamble, D. Lloyd Howard, R. R. Bennett, J. H. Franklin, H. Skinner, C. H. Hampshire, F. W. Crossley-Holland and H. Deane; **Honorary Treasurer:** A. R. Melhuish; **Honorary General Secretaries:** C. E. Corfield, G. R. Boyes; **Other Members of Executive:** H. Berry, B. A. Bull, N. Evers, G. J. W. Ferrey, A. J. Jones, J. Keall, with T. Marns, P. F. Rowsell, C.B.E., and J. C. Young, nominated by the Council of the Pharmaceutical Society.

The above persons will be the officers of the Conference, together with the following, *ex-officio*:—**President:** The president of the Pharmaceutical Society of Great Britain. **Other Members of the Executive:** The president of the Pharmaceutical Society of Ireland, the president of the Pharmaceutical Society of Northern Ireland, the chairman of the North British Executive of the Pharmaceutical Society of Great Britain, the chairman of the local committee and the honorary local secretary.

The Executive wish to thank the Local Committee of Edinburgh for their generous hospitality and for the trouble taken in arranging such a memorable and enjoyable Conference. They feel sure that the members who have attended the Edinburgh Conference will wish to express and record their appreciation, and they invite you to pass the following resolution, which will be moved at this meeting:—"That the Edinburgh Local Committee be accorded a sincere and appreciative vote of thanks for the excellent arrangements made for the meetings and for their generous hospitality and kindly welcome to the members of the Conference." An invitation will be extended at this meeting by the Birmingham and District Branch to meet in Birmingham in 1939, and your Executive feel certain that this invitation will be received with much pleasure and enthusiasm. Invitations have also been received from the Bath and District Branch for 1940 and from the Torquay and District and the Blackpool Branches of the Society. These invitations have been accepted provisionally, and the Executive will consider the dates suitable for meetings in these last two centres in conjunction with a proposal to meet in London in 1941 on the occasion of the celebration of the centenary of the Society.

MR. T. GUTHRIE (President) formally moved the adoption of the report. In doing so, he expressed the regret of the conference at one passage in the report, that recording the death of Mr. Lescher.

MR. DEACON seconded the adoption of the report, which was carried unanimously.

TREASURER'S REPORT

THE TREASURER (Mr. A. R. Melhuish) read his annual report, which was in the following terms:—

The accounts for 1937 show that the income from subscriptions paid by elected members was £101 6s. 6d., and in addition a composition fee of £25 was received under Rule 2 from the Pharmaceutical Society of Northern Ireland. These amounts have been credited to the account of the "Quarterly Journal of Pharmacy and Pharmacology." On the expenditure side of the account, the general expenses of the Conference were £159 14s. 7d. These figures were included in the Pharmaceutical Society's financial statement presented at the Society's annual meeting in May of this year. The total amount expended is £34 1s. 10d. more than last year. Apart from the figures to which reference has just been made, the Conference balance sheet shows on the assets' side Consols to the nominal value of £1,250 and cash at the bank amounting to £192 12s. 7d. The usual presentation of books in connexion with the Bell and Hills Fund was made to the Liverpool and District Branch of the Society in 1937. I am pleased to be able to report that there was at the bank at the end of 1937 a surplus over the previous year of £21 6s. 10s.

MR. GUTHRIE moved the adoption of the report and remarked that he thought they were all very much astonished that they got such a result from the expenditure of so little money.

BRITISH PHARMACEUTICAL CONFERENCE 1938

MR. DEACON seconded, and the report was carried unanimously.

PLACE OF MEETING FOR 1939

MR. E. W. MANN, Birmingham, extended an invitation to the Conference to meet in Birmingham in 1939. He remarked that it was said that a thorough change was good for everyone; so after Edinburgh, Birmingham. (Laughter.) They had no Prince's Street in Birmingham; they had nothing which would rival that silhouette of the Castle and the High Street which they had seen in Edinburgh outlined against the sky. But it was said, "Happy is the nation which has no history." They in Birmingham had no murky, blood-stained past. (Laughter.) In their High Street delegates would not meet disembodied spirits as they might in Edinburgh. Birmingham was essentially a very modern city. Only this year they were celebrating the centenary of their Charter. Birmingham was largely a product of the industrial revolution of the nineteenth century, and they had suffered, and still suffered, from many of the dreadful disadvantages attached to that period. Birmingham owed much to the guidance and inspiration of a Birmingham family of which they were very proud. (Cheers.) The Conference evidently knew the family he had in mind. (Cheers.) They were prouder than ever of that family to-day. (Loud and prolonged cheers.) Under the lead of that family a new spirit was born in the town and many reforms and improvements were initiated which even to-day were still bearing fruit. Delegates who attended the 1906 Conference would find a much-changed city. They had cleared hundreds of acres of slums, 50,000 municipal houses were being built, they had established a great modern University; and this year they had opened a hospital centre, built at a cost of over a million, which stood unrivalled in this country and perhaps in Europe. In addition, they had planned a new civic centre which would transform entirely the centre of the city. They had another thing: they had a fearful and wonderful system of one-way traffic. (Laughter.) Motoring visitors to the Conference might possibly think they would never reach their hotels. (Laughter.) Around them they had some of the most typical English countryside, and they were very glad to say that the pharmacists of the district were associated with them in the invitation. If the members of the Conference accepted the invitation he could assure them that nothing would be left undone to make their visit a happy and memorable one. (Applause.)

MR. H. H. MARSHALL, Birmingham, in seconding the invitation, said he was "Brummagem made," and was very proud of his city, and had every confidence in supporting the proposal. He happened to be chairman of the Excursions Committee for next year, and if they had not got some of the things that Edinburgh had they had some beautiful countryside round about. That in itself was almost a sufficient reason for going to Birmingham.

MR. R. R. BENNETT moved the acceptance of the invitation. He said that members of the Conference would leave Edinburgh with a considerable amount of sorrow, but he felt that that sorrow would be tempered just a little by the anticipation that, if all was well with the world, they would meet next year and renew the happy friendships they had enjoyed that week. He would remind them that the Conference met in Birmingham in its infancy, in 1865, again in 1886, and for the third time in 1906. They all knew Birmingham as a progressive and very fine city, and he was perfectly sure that the quality of Birmingham hospitality was as fine as it was in 1906.

MR. H. H. DEANE seconded, and the motion to accept the invitation was carried unanimously.

ELECTION OF OFFICERS

MR. J. MILNER, who remarked that in June he commenced his fiftieth year in pharmacy, proposed the election of the officers nominated in the annual report of the Executive Committee.

MR. I. V. L. FERGUSON, seconding, said it was a great privilege to them all to be able to show their appreciation of Mr. Rutherford Hill by electing him to a second year of office. When they considered his long association with the Conference, his very long devotion to pharmacy, and the able way in which he had sustained the somewhat onerous duties of presiding at so many functions and meetings that week, the impression they had in their minds was how wise a decision the Committee had made. The other officers were all well-tried servants who would not be found wanting.

The resolution was carried unanimously.

MR. RUTHERFORD HILL, in returning thanks, paid a tribute to the good work of his colleagues, particularly the secretaries, Mr. Corfield and Mr. Boyes.

PRESENTATION OF BOOKS

THE CHAIRMAN made the customary presentation of books from the Bell and Hills Fund to Edinburgh and South-Eastern Scottish branch of the Society.

MR. J. B. MITCHELL accepted the gift on behalf of the Branch.

THANKS TO LOCAL COMMITTEE

DR. F. W. CROSSLEY-HOLLAND proposed a vote of thanks to the local committee for the arrangements made for the Conference. They had, he said, received a demonstration of the kindness of the wonderful Scottish hospitality.

MR. J. H. FRANKLIN seconded, and the motion was carried with acclamation.

DR. J. J. BLACKIE, replying on behalf of the Edinburgh committee, expressed his personal thanks for the work rendered by the secretary, Mr. Drummond, and the assistant secretary, Mr. Beattie.

THANKS TO THE CHAIRMAN

MR. H. SKINNER, proposing a vote of thanks to the chairman, paid tribute to Mr. Hill both for his personal qualities and the efficient way in which he had carried out his duties.

MR. J. KEALL seconded, and the motion was carried amid cheers.

MR. RUTHERFORD HILL acknowledged the ovation and the Conference concluded.

Recent Wills

MR. JAMES GAULD, 1 Thackeray Street, Liverpool, pharmacist, who died on July 4, left £5,699, with net personality £5,335.

MR. ERNEST LIVINGSTONE PATERSON, M.P.S., 5 Broad Quay, Bristol, who died on July 16, left £3,643, with net personality £1,081.

MR. WILLIAM COLE, Cowes, Isle of Wight, chemist and druggist, who died on June 23, left £4,445, with net personality £1,095.

MR. CHARLES ROBINSON, 20 Farcliffe Place, Bradford, chemist, who died on July 10, left estate of the gross value of £8,543, with net personality £6,405.

MR. JAMES STEWART, 17 Priory Street, Cheltenham, retired chemist, who died on June 21, left estate of the gross value of £15,494, with net personality £4,898.

MR. DAVID WHITEHEAD GIDDINGS, 14 Marine Road, Morecambe and Heysham, chemist and druggist, who died on July 2, left £7,420, with net personality £1,506.

MR. JOHN JAMES PILLEY, 160 Camberwell Grove, S.E. (formerly managing director, Mellin's Food, Ltd.), who died on July 1, left £34,542, with net personality £33,269.

ALDERMAN GEORGE BALL, M.P.S., 9 Central Avenue, Ansdell, Lytham St. Annes, who died on July 14, left property of the gross value of £15,323, with net personality £14,781.

MR. FREDERICK BARTON DELL, Martincroft, 46 Kingsway, Petts Wood, Orpington, Kent, retired chemist and druggist, who died on August 16, left £1,063, with net personality £1,025.

MR. JAMES ALFRED HORTON, J.P., 44 Gilbert Road, Bucksburn, Newhills, Aberdeen, chemist and druggist, who died on July 20 last, left personal estate in Great Britain valued at £1,275.

MR. EDMUND LLOYD PHILLIPS PARKER, M.P.S., Moatside, Castle Hill, Castle Donington, Leics, and of Cheapside, Derby, who died on June 24, left estate of the gross value of £4,055, with net personality £2,543.

MR. GEORGE DANIEL, M.P.S., Tullow, Les Road, Budleigh Salterton, Devon, and late of 272 High Road, Wood Green, London, N., who died on May 3, left estate of the gross value of £11,812, with net personality £8,277.

Trade Report

Where possible scales of prices of chemicals are given for bulk down to small quantities. Prices recorded for crude drugs, essential and fixed oils and coal tar products are for fair sized wholesale quantities. Qualities of chemicals, drugs, essential and fixed oils, etc., vary, and selected brands or grades would be at higher values

28 Essex Street, W.C.2, September 22

REPORTS this week clearly indicate there has been a general and fairly substantial improvement in business, the demand consisting almost entirely for spot goods. Shipment business has, under prevailing conditions, been impracticable for both buyers or sellers owing to the uncertain position on war risks insurance. On this account, and in consequence of the international political position, which, fortunately, seems a good deal brighter at least for the time being, it is generally recognised that spot goods are exceptional value on current quotations. The general position has resulted in particularly steady conditions on the spot, with the possibility of higher prices coming along at no distant date. Business in the PHARMACEUTICAL CHEMICALS markets is reported as showing some improvement and quoted prices are being maintained. VANILLIN is steady at the recent decline.

Crude Drugs

General business, particularly for spot goods, has been better. Shipment business is more or less at a standstill, pending steadier conditions for war risks insurance. Spot stocks of a number of important products are comparatively small and higher prices will have to be quoted for future arrivals. Spot business in AGAR has been quite brisk, with good quantities sold to the Continent. Japan reports the coming crop is estimated at 20 to 30 per cent. below normal. Curaçao ALOES continues very firm and short on spot; still no shipment offers. Rather more spot business in Japanese CAMPHOR. The demand for CASCARA SAGRADA continues modest, but prices are being fully maintained. First quality new crop CHAMOMILES are reported in small supply here. Quotations for ERGOT are slightly off the recent high levels and business has been of no consequence. HYDRASTIS is steadier after the recent declines. Matto Grosso IPECACUANHA is held steady at good prices; demand quiet. New crop LAVENDER FLOWERS are quoted dearer. More inquiry for Spanish MERCURY reported. PEPPERS are steadier. RHUBARB is firm on spot, with no direct shipment offers.

Essential Oils

The demand for these products has, after some weeks of quiet business, livened up and, as in other markets, the call has been chiefly for spot goods. There is at the moment little attempt to negotiate forward transactions. The general level of spot prices is rather steadier, with some products distinctly firm. Cheap offers continue of expressed ALMOND. Some holders of ANISE (STAR) are quoting at keen prices for spot goods. The Consortium price for BERGAMOT is unchanged. Ceylon CITRONELLA is not quite so dear on forward quotation, while the Java oil is rather steadier. Fair inquiry for Australian EUCALYPTUS. Keen prices continue to be the feature of GERANIUM. New crop LAVENDER is now generally quoted and prices are fairly steady. Sicilian hand-pressed LEMON is firm and short on spot, while shipment quotations are fully maintained. LEMONGRASS is quite neglected. LIME is dull and unsteady. OLIVE is firm, tending dearer. A quiet demand for ORANGE with keen prices in evidence. PALMAROSA is rather dearer forward. Japanese PEPPERMINT has sold very well on spot at full prices, shippers offering distant positions only.

Exchange Rates on London

The following is a list of the chief Continental and other exchange rates at the opening on Thursday morning:—

Centre	Quoted	Par	September 15	September 22
Amsterdam ...	Fls. to £	12·107	8·92	8·92½
Berlin ...	Mks. to £	20·43	11·97	12·04
Brussels ...	Belgas to £	nominal	28·30	28·56
Copenhagen ...	Kr. to £	18·159	22·40	22·40
Lisbon ...	Esc. to £	110	110½	110½
Madrid ...	Ptas. to £	25·24½	nominal	nominal
Milan ...	Lire to £	92·46	91½	91½
Montreal ...	Dols. to £	4·86½	4·82	4·84
New York ...	Dols. to £	nominal	4·79½	4·82
Oslo ...	Kr. to £	18·159	19·90	19·90
Paris ...	Fr. to £	124·21	178½	178½
Prague ...	Kr. to £	164·25	139½	140
Stockholm ...	Kr. to £	18·150	19·40	19·40
Warsaw ...	Zloty to £	43·38	25½	25½
Zurich ...	Frs. to £	25·2115	21·27	21·28

Bank rate 2 per cent.

Pharmaceutical Chemicals, etc.

THE market continues steady, with no change of importance to record. Some winter season products are receiving more inquiry.

ACETANILIDE.—Quoted unchanged, dull: B.P. crystals and powder, 1s. 7d. to 1s. 10½d. per lb., as to quantity.

AMIDOPYRINE.—Dealers' prices competitive: crystals, two cwt., 9s. 4d.; one cwt., 9s. 8d.; less than one cwt., 10s. per lb., with powder, 2½d. per lb. extra.

AMMONIUM ICHTHIOSULPHONATE.—One cwt., 1s. 6½d., in 14-lb. tins; 1s. 8d. in 1-lb. tins; 1s. 10d. in 8-oz. tins, and 2s. 1d. per lb. in 4-oz. tins.

ASPIRIN.—Makers' and dealers' prices are steady: home trade, ten cwt., 2s. 7d.; five cwt., 2s. 8d.; one cwt., 2s. 8½d.; 28 lb., 3s.; 14 lb., 3s. 1½d.; 7 lb., 3s. 2½d.; 4 lb., 3s. 4½d.; 1 lb., 3s. 7d. per lb. Bulk packing free, net, carriage paid. Contracts over twelve months, minimum one ton; over six months, less than one ton.

BROMIDES.—Makers' scales of prices steady. POTASSIUM, B.P., five cwt., 1s. 8d.; one cwt., 1s. 9d.; 28 lb., 2s. per lb. SODIUM, B.P., five cwt., 1s. 10d.; one cwt., 1s. 11d.; 28 lb., 2s. 2d. per lb. AMMONIUM, B.P., five cwt., 1s. 11d.; one cwt., 2s.; 28 lb., 2s. 3d. per lb. net. Resale clause applies. 28-lb. parcels and one-cwt. cases free. Smaller quantities than 28 lb. at higher prices. Export quotations are maintained as follows: POTASSIUM, B.P., five cwt., 1s. 4d.; one cwt., 1s. 4½d. SODIUM, B.P., five cwt., 1s. 5d.; one cwt., 1s. 5½d. AMMONIUM, B.P., five cwt., 1s. 6½d.; one cwt., 1s. 7d. per lb., f.o.b.

CITRIC ACID (B.P. CRYSTALS).—Continues steady: British material quoted at 1s. 0½d. per lb., less 5 per cent. discount, nominal and without engagement. Dealers' prices for imported material are competitive.

CREAM OF TARTAR.—Quoted unchanged: British material, 99 to 100 per cent., 92s. per cwt., less 2½ per cent. discount. Dealers' prices for foreign material competitive.

EPHEDRINE.—Fair inquiry continues to be reported for HYDROCHLORIDE, B.P., with makers quoting minimum 1,000-oz. lots from 6s., with small quantities up to 7s. per oz. Pure, alkaloid, from 7s. 9d. to 8s. 6d. per oz., as to quantity.

GALLIC ACID.—Steady on a quiet market: one cwt., 3s.; 56 lb., 3s. 1d.; smaller parcels, up to 3s. 6d. per lb.

GUAIACOL CARBONATE.—Dealers' prices are unchanged: 8s. 10d. per lb., bulk quantities at slightly cheaper prices.

GUAIACOL (CRYSTALS).—Market is dull: 9s. 10d. per lb. in 14-lb. jars; 9s. 10½d. in 7-lb. bottles; 10s. 3½d. per lb. in 1-lb. bottles.

LACTIC ACID (B.P.).—Market is dull: quantities, in carboys, 1s. 4½d. to 1s. 5d.; in winchesters and bottles, 1s. 6d. up to 2s. per lb., as to quantity.

METHYL SALICYLATE.—A little more inquiry, quoted unchanged: spot, ten cwt., 1s. 1½d.; five cwt., 1s. 2d.; one cwt., 1s. 2½d.; less than one cwt., 1s. 3d.; small quantities, in bottles, up to 2s. per lb.

METHYL SULPHONAL.—Market remains dull: two cwt., 19s. 9½d.; one cwt., 19s. 9½d.; 56 lb., 20s. 2½d.; small parcels, up to 20s. 8d. per lb.

PHENACETIN.—Makers' prices steady: crystals or powder, bulk quantities, from 2s. 6d.; smaller parcels, 2s. 7d. up to 3s. per lb., as to quantity.

PHENAZONE.—Business remains slow: crystals, five cwt., 6s. 9½d.; two cwt., 7s.; one cwt., 7s. 3d.; and less, up to 7s. 6d. per lb., with powder 2½d. per lb. extra.

PHENOLPHTHALEIN.—Quoted prices are unchanged: two cwt., 2s. 9d.; one cwt., 2s. 10d.; 28 lb., 3s.; 14 lb., 3s. 1d.; 7 lb., 3s. 2d.; smaller parcels, up to 3s. 6d. per lb.

PHENYLETHYLBARBITURIC ACID.—Small parcels, in 2-lb. bottles, are quoted at about 17s. 9d. to 18s. 6d. per lb., as to quantity.

PHOTOGRAPHIC CHEMICALS.—Home makers' prices are as follows: AMIDOL.—28 lb., 8s.; 14 lb., 8s. 9d.; 7 lb., 9s. 6d., in free 7-lb. tins; under 7 lb., 12s. per lb., in free 1-lb. bottles. CHLORQUINOL.—14-lb. bottles, 21s. per lb. GLYCIN.—7 lb., 10s. 6d.; 1-lb. bottles, 13s. 6d. per lb. HYDROQUINONE.—56 lb., 4s. 10½d.; 28 lb., 5s.; 14 lb., 5s. 3d.; 7 lb., 5s. 6d.; in 1-lb. bottles, 6s. 6d. per lb. METOL.—28 lb., 9s. 6d.; 14 lb., 9s. 9d.; 7 lb., 10s. 6d., tins free; 3 lb., 12s., bottles free; 1-lb. bottles, 12s. 6d. per lb., bottles free. ALUM (PHOTOGRAPHIC QUALITY).—1 cwt., 21s. per cwt.; 28 lb. for 6s. GOLD CHLORIDE.—15-grain tubes, 45s. per doz. MAGNESIUM POWDER.—10s. per lb. PARAMIDOPHENYL HYDROCHLOR.—8s. 6d. per lb., bottles free. POTASSIUM FERRICYANIDE.—14 lb., 2s. 2d.; 7 lb., 2s. 4d.; 1 lb., 2s. 6d. per lb. POTASSIUM METABISULPHITE.—One cwt., 8d.; 28 lb., 9d.; 14 lb., 10d.; 7 lb., 1s. per lb. PYROGALLIC ACID, CRYST.—28 lb., 7s. 3d.; 14 lb., 8s.; 7 lb., 8s. 9d.; under 7 lb., 9s. 3d. per lb. SODIUM (CARBONATE RECRYST.).—

5 cwt., 12s. 6d. per cwt.; 1 cwt., 15s. 6d. per cwt.; 56 lb. for 11s. 6d.; 28 lb. for 6s. SODIUM HYPOSULPHITE, CUBES, CRYST.—5 cwt., 17s.; 1 cwt., 19s. 6d. per cwt.; 56 lb. for 11s. 6d.; 28 lb. for 6s. SODIUM SULPHITE (PURE).—7 lb., 1s. 9d.; 1 lb., 2s. per lb., bottles and jars free. SODIUM SULPHIDE, RECRYST.—One cwt., 21s. 6d. per cwt.; 56 lb. for 13s. 6d.; 28 lb. for 7s.

POTASSIUM PERMANGANATE (B.P.).—British makers' scale of prices for home trade is as follows:—Not less than one cwt., 10½d.; not less than three cwt., 10d., in drums; not less than five cwt., 9½d. in 1-cwt. drums and 9½d. in 5-cwt. drums, net, delivered buyer's station, drums free. Technical or commercial quality, one cwt., 96s.; three cwt., 91s. 6d.; five cwt., 89s.; one ton, 86s. 6d. per cwt., in 1-cwt. drums.

POTASSIUM SULPHOGUAIACOLATE.—Market is slack: quoted at about 6s. 1d. to 6s. 6d. per lb., as to quantity.

QUININE SALTS.—Convention prices continue unchanged: sulphate, 2s. 2d.; bisulphate, 2s. 2d.; ethyl carbonate, 2s. 9½d.; salicylate, 2s. 10½d.; hydrochloride, 2s. 8½d.; dihydrochloride, 3s.; hydrobromide, 2s. 8½d.; dihydrobromide, 3s.; valerianate, 3s. 8d.; hydrophosphite, 4s.; alkaloid, 3s. 0½d. per oz., carriage paid on bulk quantities; 100-oz. tins free, smaller packages extra.

SALICYLIC ACID (B.P.).—Makers' scales of prices steady, fair inquiry: five cwt., 1s. 7d.; one cwt., 1s. 7½d.; 28 lb., 1s. 10d.; 14 lb., 1s. 11½d.; 7 lb., 2s. 0½d.; 4 lb., 2s. 2½d. per lb.

SALOL.—Remains dull, with quotations keen at about 2s. 1d. to 2s. 6d. per lb., as to quantity.

SANTONIN.—A little better inquiry: bulk lots from about £10 5s. per kilo. Smaller parcels, up to £11 10s. per kilo, ex store.

SODIUM BENZOATE (B.P.).—Makers' prices are unchanged: five cwt., 1s. 3½d.; one cwt., 1s. 4d.; smaller parcels, from 1s. 5d. up to 2s. per lb., as to quantity.

SODIUM DIETHYLBARBITURATE.—Controlled prices steady, business quiet: spot, one cwt., 11s.; 28 lb., 11s. 3d.; 14 lb., 11s. 6d.; 7 lb., 11s. 9d.; smaller parcels up to 12s. 3d. per lb.

SODIUM SALICYLATE (B.P.).—Makers' prices unchanged, rather more inquiry: home trade, crystals or powder, five cwt., 1s. 5½d.; one cwt., 1s. 6d.; 28 lb., 1s. 9d.; 14 lb., 1s. 10½d.; 7 lb., 1s. 11½d.; 1 lb., 2s. 4d. per lb.

SULPHONAL.—Dealers' prices are competitive: crystals or powder, two cwt., 15s. 5½d.; one cwt., 15s. 10½d.; 56 lb., 16s. 1d.; smaller parcels, up to 16s. 7½d. per lb.

TARTARIC ACID (B.P. CRYSTALS).—Continues steady: British makers quote at 1s. 1½d. per lb., less 5 per cent. discount, dealers offering foreign materials at competitive prices.

THEOBROMINE.—Prices for Continental, pure, two cwt., 7s. 10d.; one cwt., 8s.; 56 lb., 8s. 2d.; smaller quantities, 8s. 4d. per lb.; sodium salicylate, two cwt., 6s. 3½d.; one cwt., 6s. 4½d.; 56 lb., 6s. 5½d.; smaller quantities, 6s. 6½d. per lb. delivered, 5-lb. tins free; smaller packages extra.

THYMOL.—Synthetic, fine white, one cwt., 6s.; 56 lb., 6s. 4d.; 28 lb., 6s. 9d.; less than 28 lb., 7s. 6d. per lb., tins extra, ex ajowan seed, one cwt., 8s. 5d.; 56 lb., 8s. 10½d.; 28 lb., 9s. 5d.; 14 lb., 10s. 6d. per lb.

VANILLIN.—Convention prices for home trade continue at the reduced prices recently recorded: ex clove oil or guaiacol, five cwt., 11s.; one cwt., 11s. 1½d.; 56 lb., 11s. 3d.; smaller quantities, up to 11s. 6d. per lb.

Crude Drugs, etc.

A SUMMARY of the drug auction is given on p. 342.

AGAR.—Home and Continental demand has been quite good at full prices; market continues firm on spot: Kobe, No. 1, 3s. 3d.; No. 2, 2s. 11d. Yokohama, No. 1, 2s. 10½d. per lb.; shipment, limited quantities of Kobe No. 1 offering, with 2s. 10½d. wanted. Kobe No. 2, 2s. 6½d. to 2s. 7d.; Yokohama No. 1, 2s. 7d. per lb., c.i.f. New crop, January-February, buyers at 2s. 8d. and sellers at 2s. 9d. per lb., c.i.f., for Kobe No. 1.

ALOES.—Curaçao continues very firm on spot with still no shipment offers; business for all descriptions quiet: Cape, spot, 57s. 6d. to 60s.; shipment, steadier at 55s. per cwt., c.i.f. Curaçao, spot, from 167s. 6d. to 175s., as to quality; shipments, 150s. upwards per cwt., c.i.f. nominal. Aden, 57s. 6d. per cwt., ex store.

ANTIMONY.—Market is steady but quiet: Chinese, crude, spot, £35; shipment, September-October, £30, c.i.f. English regulus, £70 to £71 per ton, ex store.

CAMPHOR.—Rather more inquiry on spot with prices keeping steady: Japanese monopoly BE brand, £7 10s. per 100 lb.; Japanese, natural, spot, tablets, 2s. 6d.; powder, 2s. 3d.; slabs, 2s. 2½d. per lb., ex store; shipment: tablets, 2s. 2d.; powder, 1s. 11½d.; slabs, 1s. 11d. per lb., c.i.f.; English refined flowers, one cwt., 3s. 1d.; 28 lb., 3s. 2d.; small lots, 3s. 3d. per lb. Transparent tablets, 4 oz., 8 oz. and 16 oz., 3s. 4d.; 1 oz. and 2 oz., 3s. 5d.; ½ oz., ¾ oz. and 1 oz., 3s. 6d.

CANTHARIDES.—Occasional spot demand, quoted unchanged: Chinese, spot, 2s. to 2s. 2d.; shipment, 1s. 7d. per lb., c.i.f.; Russian, 4s. 3d., spot.

CASCARA SAGRADA.—The spot values are firmly maintained, despite

the limited demand; anything available for shipment is quoted rather dearer: 1938 bark firm at 47s. per cwt., c.i.f.; spot, 1938 bark, 52s. 6d.; 1937 bark, 57s. 6d., and 1936 bark, up to 65s. per cwt., ex store, duty paid.

CHAMOMILES.—New crop finest white flowers are reported to be in small supply here and the price is held at 160s.; seconds at 130s. per cwt.

CLOVES.—Values are steadier, business quiet: Zanzibar, spot, 8½d.; shipment, September-October, 8½d. per lb., c.i.f., Madagascar, in bond, 7½d.; shipment, October-December, 6½d. per lb., c.i.f.

The landings of Zanzibar in London during the week ended September 17 were *nil* and the deliveries 3, leaving a stock of 961. From January 1 to date the landings of Zanzibar have been 1,904, and the deliveries 2,002. Landings of Madagascar for the week ended September 17 were *nil*, and the deliveries 53, leaving a stock of 1,508. From January 1 to date the landings of Madagascar have been 1,465 and the deliveries 2,033 packages.

COCOA BUTTER.—Moderate business reported: prime English, 8½d. to 9½d. per lb. Foreign, 8d. to 9d. per lb., as to quantity and quality.

COCONUT (DESICCATED).—Remains quiet with values maintained: spot, fine, 16s. 3d.; medium, 16s. 3d. per cwt.; shipment, halves, September, 15s.; October-December, 15s. 3d. per cwt., c.i.f.

Ceylon exports of desiccated coconut during January-May, 1938, totalled 228,000 cwt., valued at 1,733,000 Rupees, compared with 220,000 cwt., valued at 3,094,000 Rupees in the corresponding period of 1937.

COD-LIVER OIL.—Bergen reports there is still but little demand in the shipment market; quotations are unchanged: finest Lofoten steam-refined non-freezing medicinal oil, 90s. per barrel, c.i.f. London. Small lots, on spot, about 132s. 6d. per barrel, ex store, duty paid. British finest medicinal oil, 115s. per 25-gallon drum, delivered U.K., with rebates for 25 or more drums. Exports to August 31 totalled 40,450 barrels, compared with 53,524 barrels at August 31, 1937, and 53,507 barrels at August 31, 1936.

ERGOT.—Market has been dull and is rather cheaper on quotation. Portuguese, spot, 5s. 3d. to 5s. 6d., as to seller; shipment, about 4s. 4½d., c.i.f. Polish, spot, 3s. 9d. to 3s. 10½d. per lb.; shipment, nominal at 3s. 7½d. per lb. No Russian or Spanish offering.

GENTIAN.—Small spot demand: clean French root, 34s. 6d.; shipment, new crop, 28s., c.i.f.; Continental, 33s. 6d. per cwt., ex store, as to quantity.

GINGER.—Market about steady, business quiet: West African, spot, 25s.; for arrival, 21s. per cwt., c.i.f. Jamaican, spot, bold, in barrels, 70s. to 85s.; small grinding, in bags, 45s. to 47s. 6d.

GUM ACACIA.—Market is quiet but continues steady: Kordofan, cleaned sorts, spot, 39s.; shipment, 36s. 6d. per cwt., c.i.f.

HYDRASTIS.—Small spot demand with prices steadier: U.S.P., 13s. 3d.; shipment, 13s. per lb., c.i.f. Root testing, 3.14 total alkaloids offered here at 14s. 3d. per lb., ex store.

IPPECACUANHA.—Still but small demand but quotations are fully steady: Matto Grosso, B.P., spot, 7s. 1½d. to 7s. 4½d.; shipment, 6s. 10½d. per lb., c.i.f.

MENTHOL.—A brisk spot business is reported, with several good-sized orders placed: K/S brands firm on spot from 13s. to 13s. 4½d., as to seller. Goods near afloat firm at 11s. 9d., c.i.f. Export demand from the Baltic, with 12s., c.i.f., reported paid. Japanese quoting October-December at 11s. 6d., c.i.f., with no business possible on account of war risks insurance position. Chinese, spot, 12s. 10½d. to 13s. per lb.

Exports of menthol from Japan during January-May, 1938, totalled 116,705 kilogram, valued at yen 2,199,000, compared with 166,127 kilogram (yen 2,764,000) in the corresponding period of 1937, and 106,475 kilogram (yen 1,831,000) in the first five months of 1936.

MERCURY.—First-hands quotations are unchanged at former figures, with rather more inquiry reported: shipment, 69 dollars per bottle, f.o.b., Continent; spot, £13 18s. to £13 18s. 6d. per bottle, ex store, London.

PEPPER.—Market has remained quiet, but values are steadier: Lampong, in bond, 2½d.; shipment, October-December, 2½d.; January-March, 2½d., c.i.f. Tellicherry, spot, 4d.; shipment, August-October, 33s., c.i.f. Aleppy, spot, 4d.; shipment, August-October, 33s., c.i.f. White Muntok, in bond, 3½d.; shipment, October, December, 3½d.; January-March, 3½d., c.i.f. London Terminal Market: Black, August, 2½d.; October, 2½d.; December, 2½d.; March, 2½d. White, September, 3½d.; October, 3½d.; December, 3½d.; March, 3½d. per lb.

PIMENTO.—Values are fully steady: spot, 8d. per lb.; shipment, September-October, 64s. per cwt., c.i.f.

RHUBARB.—All descriptions are quoted fully up to former values, and business has been good in rough round. No shipment offers from Shanghai, but one offer from the interior at 1s. 8d., c.i.f., for dispatch via Hong Kong.

RUBBER.—With a fair amount of business transacted the market is steady at the better values: smoked ribbed sheet, spot, 8½d.; October, 8½d.; November, 8½d.; December, 8½d.; January-March, 8½d.; April-June, 8½d.

SEEDS.—ANISE.—Spot, duty paid, Spanish, 60s.; Bulgarian, 42s. 6d.; Syrian, 41s. CANARY.—Market firm. The latest spot prices, duty paid, are: Malazagan, 16s. 6d.; Morocco, 15s.; Turkish, 14s. 6d.;

Plate, 14s.; Spanish, 21s. to 35s. CARAWAY.—Dutch, on spot, is worth 33s. 6d., duty paid; 28s. 6d. quoted f.o.b. Holland.

CORIANDER.—Morocco, on spot, is offered at 16s., duty paid, and 14s. 6d., in bond. CUMIN.—Spot, Malta, 50s., duty free; Morocco, 52s. 6d., duty paid. New crop Morocco for shipment is quoted at 54s., c.i.f. FENNEL.—Spot, Indian, 22s. 6d. to 27s. 6d. Iran, 22s. 6d. in bond. FENUGREEK.—Morocco, on spot, is 13s. duty paid; for shipment, 10s., c.i.f., is quoted. MUSTARD.—English, 20s. to 31s. 6d., according to quality.

SENEGA.—A little spot inquiry, market continues steady: spot, 2s.; shipment, 1s. 11d. per lb., c.i.f.

SHELLAC.—Market is steady at the further recovery in values: spot, standard TN orange, 39s. to 42s.; fine orange, 57s. 6d. to 80s.; pure button, 50s. to 55s. per cwt. For delivery, TN, October, 39s. 6d.; December, 40s. 6d.; March, 41s. 6d. For arrival, TN, September-October, 37s. 6d. per cwt., c.i.f.

TURMERIC.—Market has been quiet: Madras finger, spot, 28s.; shipment, 26s. per cwt., c.i.f. Rajapore, shipment, 26s. per cwt., c.i.f.

WAXES.—BEES'.—Spot values continue fully steady despite the quiet demand: Calcutta, bleached, spot, 125s.; shipment, September-October, 117s. 6d., c.i.f.; ordinary quality, spot, 95s.; shipment, September-October, 90s. per cwt., c.i.f. Benguella, in bond, 90s.; shipment, September-October, 87s., c.i.f. Conakry, 90s. in bond; shipment, September-October, 85s., c.i.f. Dar-es-Salaam, spot, 97s. 6d.; shipment, September-October, 93s., c.i.f. CARNAUBA.—Market has been without feature, quoted unchanged: fatty grey, spot, 152s. 6d.; alfoato, 147s. 6d.; shipment, September-October, 144s., c.i.f. Chalky grey, spot, 147s. 6d.; alfoato, 145s.; shipment, September-October, 142s. 6d., c.i.f. Primeira, spot, good quality, 195s.; f.a.q., 182s. 6d.; shipment, September-October, 187s. 6d., c.i.f. Mediana, spot, 180s.; shipment, 177s. 6d. per cwt., c.i.f.

Essential and Expressed Oils, etc.

A GOOD deal more business reported this week, with the demand almost entirely limited to spot goods. Ceylon citronella is rather easier. New crop lavender is now generally quoted. Sicilian lemon is firm, spot and forward. Japanese peppermint has sold well on spot at full prices.

ALMOND.—Some spot quotations continue at cheap prices; English-made, cwt. lots, 2s. 6d.; smaller parcels, up to 3s. per lb.; foreign, cwt. lots, 2s. 6d.; smaller parcels, up to 3s. per lb. French bitter, 6s. to 6s. 1½d. per lb.

ANISE (STAR).—The demand on spot continues slow, and spot values are easier in some quarters: spot, leads, nominal; tins, 3s. 3d.; drums, 3s. 2d. per lb., ex store; shipment, leads, nominal; tins, 2s. 9d.; drums, 2s. 8d. per lb., c.i.f.

BERGAMOT.—Consortium price about 14s. 7½d. per lb., c.i.f. Spot lots of genuine oil are quoted in the region of 15s. to 15s. 3d. per lb.

CINNAMON LEAF.—Dealers' prices for spot oil are keeping steady: quoted at about 2s. 4d. to 2s. 8d. per lb., as to quantity.

Ceylon exports of cinnamon leaf oil during January-May 1938 totalled 1,248,000 oz., valued at 194,000 rupees, against 920,000 oz., valued at 144,000 rupees in the corresponding period of 1937.

CITRONELLA.—The Ceylon oil is reported to be slightly easier forward, while the Java product is a point dearer: Ceylon, spot, drums, if available, 1s. 6d. nominal; smaller parcels, up to 1s. 11d.; shipment, distant positions only, drums from 1s. 3½d. per lb., c.i.f. Java, spot, drums, 1s. 9½d. to 1s. 10d.; smaller parcels, up to 2s. 3d.; shipment, drums, around 1s. 4½d. per lb., c.i.f.

Ceylon exports of citronella oil during January-May 1938 totalled 615,000 lb., valued at 459,000 rupees, compared with 660,000 lb., valued at 600,000 rupees in the corresponding period of 1937.

CLOVE.—Values are keeping quite steady, with spot supplies of Madagascar oil apparently limited: Madagascar, spot, 2s. 9d. to 2s. 10d.; re-packed in small parcels, up to 3s. 4d. per lb. English, distilled, 4s. 10d. to 5s. per lb.

EUCALYPTUS.—Fair seasonal inquiry, with good quality oils fully steady: Australian, 70 to 75 per cent., tins, 1s. 3½d. to 1s. 4d.; drums, 1s. 3d.; 80 to 85 per cent., drums, 1s. 6½d. per lb., ex store, with higher prices for small lots; shipment, 70 to 75 per cent., tins, 1s. 1½d.; drums, 1s. 1d.; 80 to 85 per cent., 1s. 4d. per lb., c.i.f.

GERANIUM.—Occasional spot inquiry, with indifferent quality oils quoted cheaply; shipment markets tend steadier: Bourbon, spot, 11s. to 12s.; shipment, about 10s., c.i.f. Algerian, spot, 12s. 3d. to 13s.; shipment, about 11s. 6d. per lb., c.i.f. Madagascar oil, Bourbon type, offering in small quantity at about 10s. 6d. per lb., c.i.f.

LAVENDER.—Offers of new crop oil are now coming to hand freely and the average price for a good quality 38 to 40 per cent. product is about 240 francs per kilo, c.i.f. Some quotations are up to 275 francs, and one specifying a guaranteed pure oil, fully 40 per cent., is limited at 285 francs per kilo, c.i.f. The source reports fair business, with the market steady. Lavandin quotations average from 5s. 6d. to 6s. per lb., c.i.f.

LEMON.—The source continues to report a firm market, with quotations still in the region of 11s. per lb., c.i.f., for bulk quantities of branded oils. It is reported that an order for a large quantity was taken on the London market during the past week, but no details

were divulged. The spot position continues firm, with comparatively small supplies of good quality oil available, and the price firm at 11s. 6d. per lb. Machine-made, 10s. 6d. per lb., c.i.f. Californian distilled, steady at 6s. 4d. per lb., in small drums, landed.

LEMONGRASS.—Dull on spot and idle forward: spot, 1s. 7½d. to 2s., as to quantity and packing; shipment, September-October, 1s. 4½d. per lb., c.i.f.

LIME.—The spot market continues unsettled, with cheap prices quoted: West Indian, distilled, about, 18s. to 19s. per lb., as to quantity. Oil from other sources offering at about 16s. to 17s. per lb., as to quantity.

OLIVE.—Quotations are well maintained on a firm market, fair business: B.P., 1 per cent., 5s. 10½d. per gallon, in drums. Edible quality, ten 1-gallon tins, in cases, 77s. 6d.; twenty ½-gallon tins, 82s. per case; drums, 6s. 1½d. to 6s. 3d. per gallon.

ORANGE.—Business continues chiefly in limited quantities on spot and at keen prices: French Guinea oil remains at cheap prices: spot, in drums, 2s. 8d. to 2s. 9d.; repacked, in tins, 3s. to 3s. 2d. per lb., ex store; shipment dull at about 2s. 2d. per lb., c.i.f. Californian, spot, one case, 2s. 8½d.; two or more cases, 2s. 6d.; large drums not quoted; small drums, 2s. 5d. per lb., landed; cold-pressed, 3s. 2d. per lb., c.i.f., in cases.

PALMAROSA.—A little inquiry, with dealers' prices steady: spot, about 7s. 9d. to 8s. per lb.; shipment offers, prompt, 6s. 10½d., c.i.f. Java oil, in limited quantity, quoted at about 4s. 10½d. per lb., c.i.f.

PEPPERMINT.—A brisk spot demand is reported for Japanese with prices ranging from 4s. 10d. to 5s. per lb., as to seller. There is a re-seller of August-September at 4s. 6d., c.i.f., and oil afloat, steamer declared, is available at 4s. 8d., c.i.f., Japanese shippers quoting October-December only at 4s. 9d., c.i.f., with a speculative re-seller at 4s. 6d., c.i.f. American natural oil, in drums, is about unchanged at 2 dollars 30 cents to 2 dollars 35 cents per lb., c.i.f. Bulgarian is offered at 11s. per lb. and Russian at 7s. 6d. per lb., c.i.f.

Exports of peppermint oil from Japan during the period January-May 1938 totalled 135,900 kilog., valued at yen 977,000, compared with 144,900 kilog. (yen 1,999,000) in the corresponding period of 1937, and 101,340 kilog. (yen 861,000) in the first five months of 1936.

SPIKE.—A little more inquiry reported on spot: genuine Spanish, about 5s. 1½d. to 5s. 6d. per lb., as to quantity and seller. Some oil offered for shipment from Spain recently. Blended oils offering at cheaper prices.

VELVET.—Dealers' prices for new crop Bourbon, now afloat, are firm at 15s. to 15s. 6d. per lb. for bulk quantities: small spot lots, about 19s. to 20s. per lb. A limited quantity of Kenya oil is reported: quoted from 15s. 3d. to 16s. 3d. per lb., as to quantity.

WORMSEED.—Steady, quiet demand; U.S.P., spot, 11s. to 11s. 3d.; shipment, 10s. 6d. per lb., c.i.f.

London Drug Auction

AT THE DRUG AUCTION held on Thursday only three catalogues were submitted. Several other brokers decided not to include their catalogues, apparently on the grounds of the uncertainty of the present situation.

The offerings, however, covered the usual range of commodities, with a fair sprinkling of fresh importations, but the demand generally was quiet. ALOES continue very firm, especially Curaçao, whilst the Cape variety is fully steady. ANNATTO SEED, Jamaica, was held for 4½d. and Madras at 3½d. per lb. BALSAM PERU: two parcels were on offer and retired at 3s. 6d. per lb., "in bond." BENZOIN, Sumatra, continues to find an active market privately, but only small quantities were available in auction. Siam was offered in the usual assortment and held for previous rates. BUCHU is unchanged, and for fair green round 1s. 5d. per lb. was realised "under the hammer." Other parcels were available slightly under this price. CARDAMOMS: a fresh consignment of 40 cases of Ceylon was offered, varying in price from 2s. to 4s. 6d. per lb., as to quality. Seeds were available at 3s. 3d. to 3s. 6d. per lb. DRAGONS BLOOD was steady and unchanged. GAMBOGE is now beginning to attract more attention, and good Siam pipe is firmly held for £13 10s. per cwt. HONEY: 116 packages offered and prices ranged as to quality from 28s. to 38s. per cwt. We understand that quite a good trade is passing privately, and a fair quantity has recently been cleared from the market. MYRRH: a parcel of four cases of fair grain was sold prior to auction. Two other lots, one of fair darkish sorts, were held for £8 5s. per cwt., duty paid, and ordinary rather small at £7 10s. per cwt. RHUBARB: a moderate business is passing privately and prices are well maintained. Shipment prices continue nominal in view of the difficulty in securing supplies from the war area. SENNA: the selection of Alexandrian hand-picked pods of good quality continues poor. In the auction some seven bales of really selected Tinnevely hand-picked pods, of good pale colour, were held for 6d. per lb. KOIA NUTS: two parcels of good bright West Indian were withdrawn at 3½d. per lb. TUBA ROOT: a parcel of twelve cases of Java, with an exceptionally high rotenone content and also ether extract, was for disposal at around 1s. 6d. per lb.

The next drug auction will be held at the Commercial Sale Rooms, Mincing Lane, on Thursday, November 24.

Commercial Notes

Bulgarian Rose Oil Production, 1938.—Production in Bulgaria is estimated at 2,200 kilog. for the current season, compared with an output of 2,850 kilog. in 1937. This estimated decline, however, is not expected to disturb the market as carry-over stocks being held by the Agricultural Bank of Bulgaria are reported at several thousand kilog.

Palestine Thyme Oil.—The Palestine distillers report that stocks of last season's oil are all sold. Due, it is added, to abnormal conditions in Palestine, gathering of the herb was greatly restricted this season and distillation has been limited accordingly.

German Imports of Cinchona Bark.—Total imports of cinchona bark during 1937 amounted to 2,693 metric tons valued at 5,176,000 marks. Of this total, 2,259 metric tons came from the Dutch East Indies and about 400 tons from Bolivia.

Mexican Lime Oil Exports.—Shipments from Colima to the United States totalled 5,210 lb., valued at \$8,349 f.o.b. in June, 1938, against 5,488 lb., valued at \$10,162, in the corresponding month of 1937.

Salvadore Balsam Peru Industry.—Shipments during recent years have declined, owing, it is stated, in large part to adverse weather conditions. Prices in 1937 ranged from 55 to 80 cents per pound, with most sales being made at around 72 cents. During the first half of the current year quotations have varied from 55 to 65 cents. The United States continues the leading market. Destinations of shipments were as follows:—

Country	1937		Jan.-June, 1938	
	Gross kilos.	Dollars	Gross kilos.	Dollars
United States ...	45,353	51,422	26,393	22,020
Germany ...	9,735	12,639	4,473	5,084
France ...	7,932	10,928	5,846	5,584
Great Britain ...	3,358	4,229	1,187	1,490
Other countries ...	1,856	2,740	328	231
Total ...	68,234	81,958	38,227	34,409

Danish Casein Industry.—Shipments during 1937 totalled 1,997 tons, compared with 1,139 tons during 1936. The chief destinations of the 1937 shipments were as follows:—

Country	Tons	Crowns	Country	Tons	Crowns
Germany ...	1,080	1,101,000	Czechoslovakia ...	75	73,000
England ...	335	333,000	Austria ...	42	40,000
Norway ...	23	34,000	Greece ...	48	50,000
Sweden ...	97	112,000	United States ...	53	50,000
Latvia ...	25	18,000	China ...	10	10,000
Poland ...	15	15,000	Japan ...	6	7,000
Netherlands ...	48	47,000	Total ...	1,997	2,034,000

The industry has been stimulated by the lanital process. The yearly output of the nine plants comprising the industry is now about 2,000 metric tons. The demand for Danish casein by the Italian artificial wool manufacturers increased exports in 1937 to 1,997 metric tons, as compared with 1,139 in 1936, a gain of 75 per cent. De Danske Mælkcondenseringsfabrikker (The Danish Condensed Milk Factories), Nakskov, has enlarged its production, and an Anglo-Danish company, capitalised at 150,000 crowns, is erecting a factory at Svendstrup for the manufacture of casein for export to England.

U.S.A. Imports of French Essential Oils.—Imports of French oils and essences during the periods April-June, 1938 and 1937, were as follows:—

Product	2nd Quarter, 1937		2nd Quarter, 1938	
	lb.	\$	lb.	\$
Geranium oil ...	4,747	19,837	1,226	5,211
Lavender oil ...	8,074	48,374	16,703	37,132
Miscellaneous essential oils ...	33,158	56,778	41,593	37,270
Other perfume products ...	6,098	11,562	4,142	8,458
Jasmine essence ...	300	43,370	169	22,376
Rose essence ...	238	24,571	96	9,354
Tuberose essence ...	24	1,742	6	594
Lavender essence ...	—	—	16	622
Other floral essences ...	565	18,080	266	7,185
	53,204	224,314	64,217	128,202
	gallons		gallons	
Floral waters ...	3,724	1,350	3,509	1,295
		225,664		129,497

U.S.A. Glycerin Industry.—Domestic production, imports and exports for January-June, 1937 and 1938, were as follows:—

Imports	1937 (Jan.-June)		1938 (Jan.-June)	
	lb.	\$	lb.	\$
Crude ...	10,270,170	1,745,855	3,948,785	399,457
Refined ...	5,556,607	1,281,955	900,427	76,347
Exports ...	590,894	170,884	2,663,957	296,554

Grade	Production (lb.)		Factory and Warehouse Stocks (lb.)	
	1937 (Jan.-June)	1938 (Jan.-June)	June 30, 1937	June 30, 1938
Crude, 80 per cent. basis ...	91,889,550	80,318,457	13,388,049	12,427,451
Dynamite grade ...	29,001,818	20,993,251	15,751,798	20,640,663
Chemically pure ...	49,581,378	45,758,911	21,207,772	40,988,137

U.S.A. Ephedra Herb Imports.—Imports from all sources during January-June, 1938, totalled 831,281 lb., compared with 399,891 lb. during the corresponding period of 1937. Details of the 1938 imports were:—

Source	June, 1938		January-June, 1938	
	Lb.	\$	Lb.	\$
China ...	22,340	1,475	213,928	15,602
Japan ...	54,400	3,936	161,518	10,808
India ...	—	—	446,350	29,197
Spain ...	—	—	9,485	544
Total ...	76,740	5,411	831,281	56,151

U.S.A. Essential Oils Imports.—Imports for the period January-June of the past three years were as follows:—

Product	1936	1937	1938
	First Half	First Half	First Half
Essential oils:—	\$	\$	\$
Cassia and cinnamon ...	156,309	132,039	142,105
Geranium ...	213,555	311,599	175,208
Rose ...	80,831	127,309	68,266
Bergamot ...	94,454	177,141	194,813
Citronella and lemongrass ...	219,251	295,382	357,623
Lavender ...	298,109	209,524	116,256
Lemon ...	69,106	132,076	141,417
Orange ...	95,096	196,023	124,742
Sandalwood ...	2,552	12,234	5,573
Lime ...	120,211	402,187	161,437
All others ...	670,897	1,015,476	797,480
Total ...	2,020,371	3,010,990	2,284,920

U.S.A. Rotenone Products Imports.—The following table gives details of imports of rotenone-bearing products and sources for 1936, 1937 and January-June, 1938:—

Product and Source	1936		1937		January-June 1938	
	Lb.	\$	Lb.	\$	Lb.	\$
Derris Root, crude:—						
British Malaya ...	332,251	69,182	401,975	72,613	122,746	16,480
Netherlands Indies ...	28,581	5,145	57,524	10,609	62,710	8,797
Philippine Islands ...	149,505	21,626	110,528	14,046	19,497	2,640
Japan ...	—	—	—	—	6,720	1,164
Other Br. Indies ...	—	—	314	63	—	—
United Kingdom ...	—	—	2,257	449	—	—
Panama ...	—	—	54	11	—	—
Total ...	510,337	95,953	572,652	97,791	211,673	29,081
Cube, Timbo or Barbaco Root, crude:—						
Brazil ...	508,570	34,044	197,892	16,677	25,744	1,476
Colombia ...	1,200	156	—	—	—	—
Peru ...	171,600	19,350	378,259	34,487	213,444	14,075
Venezuela ...	22,750	1,775	—	—	—	—
Total ...	704,120	55,325	576,151	54,164	239,188	15,551
Advanced in Value (Powder):—						
Brazil ...	1,124,936	172,239	1,263,773	190,844	1,268,337	181,439

Correspondence

Correspondents may adopt an assumed name, but must in all cases furnish their real name and address to the Editor.

British Fish-liver Oils

SIR,—Your report of my remarks in the discussion on the paper entitled "The Analytical Classification of the Fish Liver Oils" (*C. & D.*, September 17, p. 299), which was read at the British Pharmaceutical Conference, gives the impression that I was depreciating British oils in comparison with those of Norwegian origin. Such an intention was very far from my mind, and, as far as I remember, the purport of my remarks was that if Mr. Deane had seen mixed livers (i.e., containing livers other than *Gadus*) it was likely that they were intended for technical oils and not medicinal cod-liver oils. I also said that the livers used for British oils contained not more than a very small proportion of species other than *Gadus*. Norwegian oils, on the other hand, were generally made from livers containing a high proportion of cod. I should be very much obliged if you could see your way to publish this correction, as I had no intention, either in the paper or in the discussion, of giving the impression that British oils were in any way inferior to Norwegian oils.

Yours faithfully,

Bethnal Green, London, E.2.

NORMAN EVERS.

A Journey in the Far East

SIR,—I have just returned from far away Kunming (Yunnanfu) in the province of Yunnan . . . I spent ten days in Kunming, the capital city of Yunnan, and was fortunate enough to be taken round by the British and the American consuls (both friends), so I saw all there was to see—but the censorship is so strict here that I must reserve my observations till I return to Britain some day. In French Indo-China, at Hanoi and Haiphong, I was interested in the pharmacies naturally and was surprised to find some very up-to-date places owned and run by the Annamites themselves. I spent some time in the fine University at Hanoi and was pleased to find that in French Indo-China the authorities for many years have placed the training of pharmacists on an equal footing with the training of medical men. . . . In Hongkong I spent a week—a most interesting though busy week. I had the pleasure of being taken round the fine new government hospital, with 500 beds. It is the best equipped hospital in Asia to-day. Everybody in Hongkong is interested in A.R.P.—men, women and children—a sign of the times, or perhaps future events casting their shadows. Who knows? One of the most interesting pharmaceutical places I visited was the Hongkong Government pharmaceutical manufacturing laboratory, where the chief, my friend Mr. Cable, let me see all they were doing to keep the many government hospitals and clinics supplied with their drugs, etc.—Most sincerely yours,

Peking.

J. CAMERON.

Business of a Chemist and Druggist

SIR,—Mr. J. Rutherford Hill, in the concluding part of his address to the British Pharmaceutical Conference (*C. & D.*, September 17, p. 283), spoke of the need for a sufficient definition of what is comprehended in the expression "the practice of pharmacy," and this phrase has so far eluded definition as effectively as the one to which he alluded in an earlier part of his speech, namely "the business of a chemist and druggist." I do not remember having seen it suggested that a basis for defining both these might be taken from the syllabus for the Pharmaceutical Society's Chemist and Druggist Qualifying examination. The requirements for the practical examination in pharmaceuticals include the conduct of ordinary pharmaceutical operations, the making of galenical preparations in the B.P., the dispensing of prescriptions, the making of sterile preparations, detection of unusual doses and completion of preparations in a proper manner. These requirements suitably worded should comprise a complete definition of the practice of pharmacy, as they cover all the operations the pharmacist is called on to undertake in the performance of the professional side of his work. There is nothing in this part which would cover the retail sale of drugs and poisons, but on turning to the requirements for forensic pharmacy one finds that knowledge must be had concerning the enactments applicable to the practice of pharmacy in shop or hospital.—Yours faithfully,

DEFINITION (18/9).

Miscellaneous Inquiries

We do not undertake to analyse and report upon proprietary articles nor to publish supposed formulas for them

W. S. P. (13/5).—COUGH CANDY.—The following formula, taken from "Pharmaceutical Formulas," Vol. II, may enable you to make any necessary adjustments to your own method:—

Granulated sugar	..	..	..	9 lb.
Brown sugar	..	..	..	5 lb.
Liquorice stick	..	..	..	8 oz.
Tartaric acid	..	..	..	1½ oz.
Ipecacuanha powder	..	..	..	1 oz.
Tincture of tolu	..	..	..	1 oz.
Oil of anise (or peppermint)	..	..	..	½ oz.
Cream of tartar	..	..	..	½ oz.
Water	..	..	..	4 pints

Melt the sugars in the water and bring them to a sharp boil. Add the cream of tartar, and continue to boil to 310° to 315° F., put in the liquorice stick, cut small, and continue to boil for five minutes, then pour upon the slab and add the remainder of the flavouring ingredients.

C. K. B. (16/9).—CASEIN GLUE.—This can be made by dissolving casein in water to which has been added an alkali such as caustic soda, soda ash or borax. The product thus formed is a strong glue, which is water-soluble. If hydrated lime, however, be added to the water and casein, it reacts with the latter, forming insoluble calcium caseinate, which is water-proof but possesses slower penetrating properties than the soluble form of glue. Most casein glues are combinations of these two types and often contain in addition various chemicals such as sodium silicate or copper salts. The following is a recommended formula for this type of casein glue:—

Casein	..	..	..	78 per cent.
Dry sodium carbonate	..	..	..	4.5 per cent.
Sodium fluoride	..	..	..	4.0 per cent.
Freshly slaked lime	..	..	..	12.5 per cent.
Sodium arsenate	..	..	..	1.0 per cent.

For use, mix with (a) water or (b) a weak solution of gelatin glue.

A. & V. (16/9).—WEATHER INDICATOR.—The weather indicator of the type to which you refer is based on the changes in colour produced in a soluble salt of cobalt by variations in the moisture content of the atmosphere. It is made by dipping white blotting paper into the following solution:—

Cobalt chloride	..	..	..	1 oz.
Sodium chloride	..	..	..	½ oz.
Glycerin	..	..	..	2 drops
Mucilage of acacia	..	..	..	1 dr.
Distilled water	..	..	..	5 oz.

Calcium chloride, about 70 gr., may be substituted for the glyceriu. The strips are allowed to dry; when exposed to the atmosphere they become more or less reddish in colour in proportion to the moisture present. Thus: Rose-red, rain; pale red, very moist; bluish-red, moist; lavender-blue, nearly dry; blue, very dry.

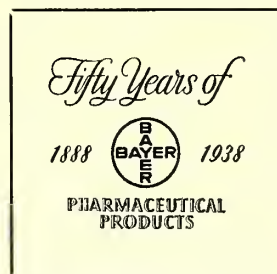
Retrospect of Fifty Years Ago

Reprinted from

"The Chemist and Druggist," September 22, 1888

Educational

Examination is not an unmixed blessing, but it has unquestionably been the principal factor in making British pharmacy a distinct unit amongst the scientific callings. It is, however, regarded by a section—a small section—of pharmacists to have failed in its object, consequently there has been much agitation during the past six years to place further bounds upon pharmaceutical education by the imposition of a curriculum. Should this agitation be successful, it is possible that the result will be as beneficial as the examinations have been; but we wish to impress upon students that neither a curriculum nor examinations will make a man a pharmacist. Personal ambition has something to do with that; interest in the work is a helpful factor; but a determination to make the most of his faculties for the public service, and therefore for his own benefit, is perhaps the most healthy spirit to find in a student.



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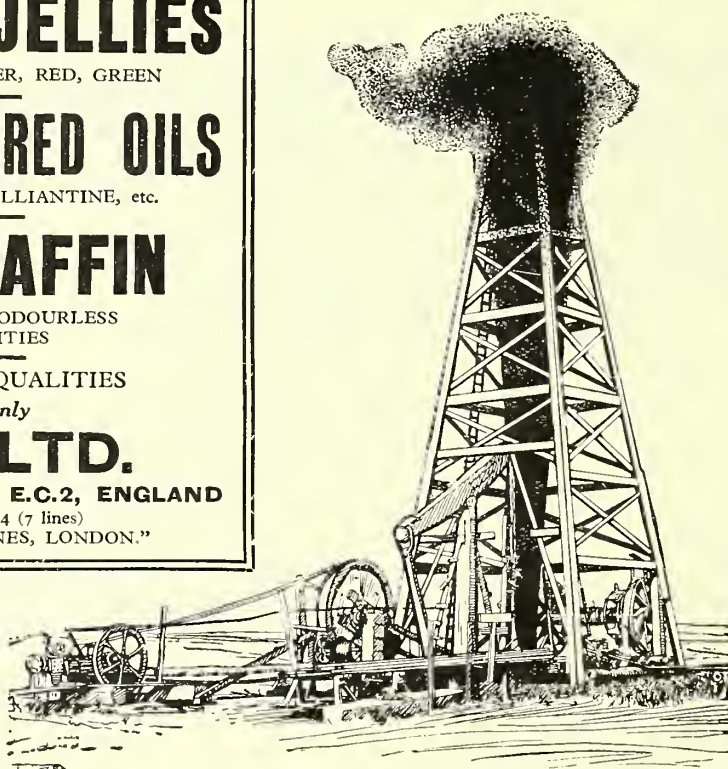
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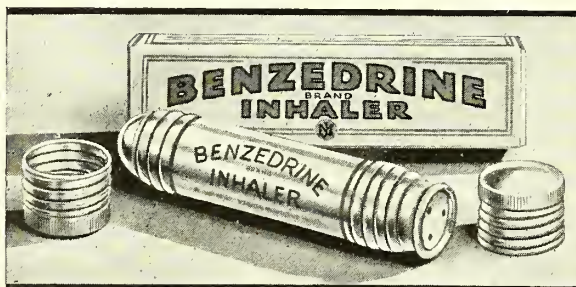
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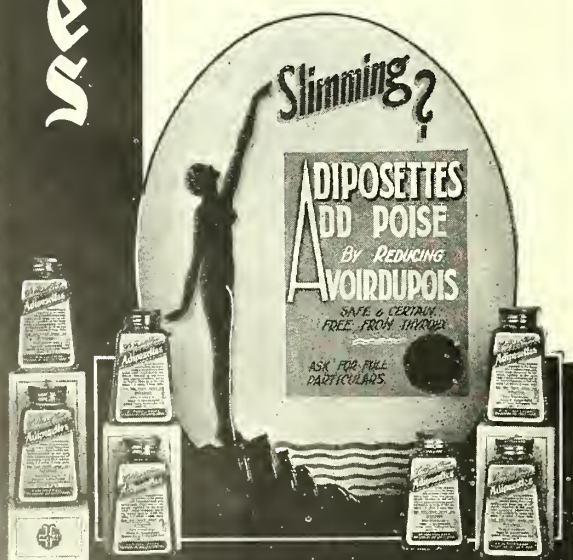
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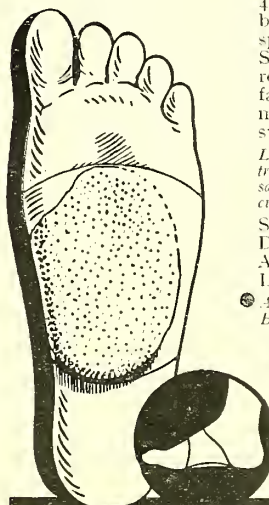
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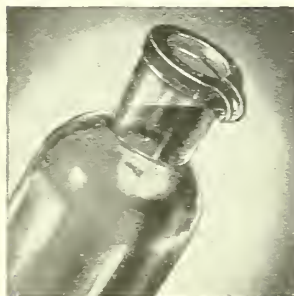
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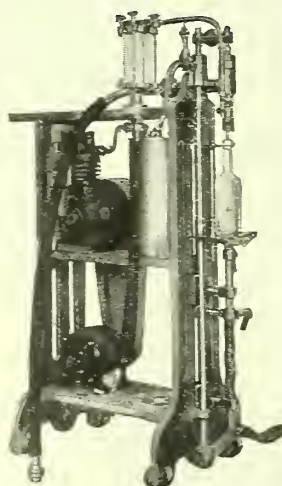
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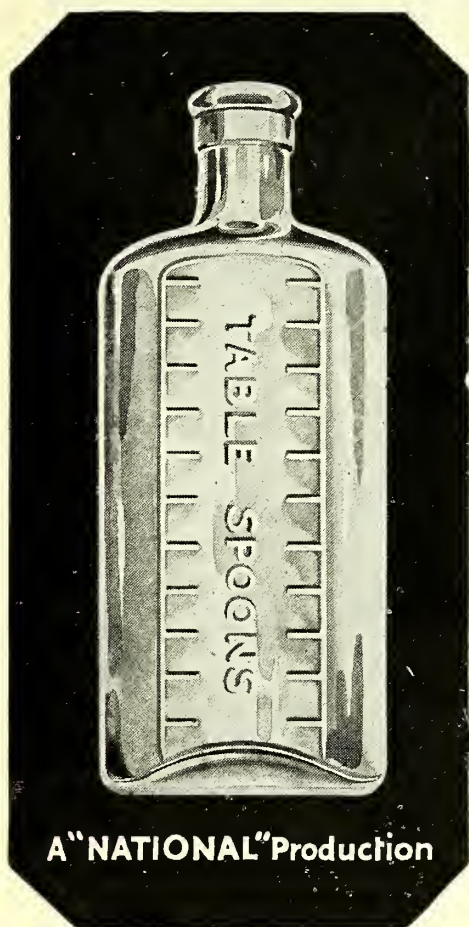
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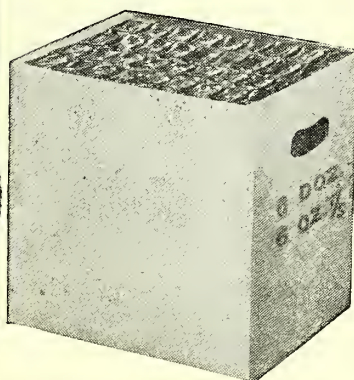
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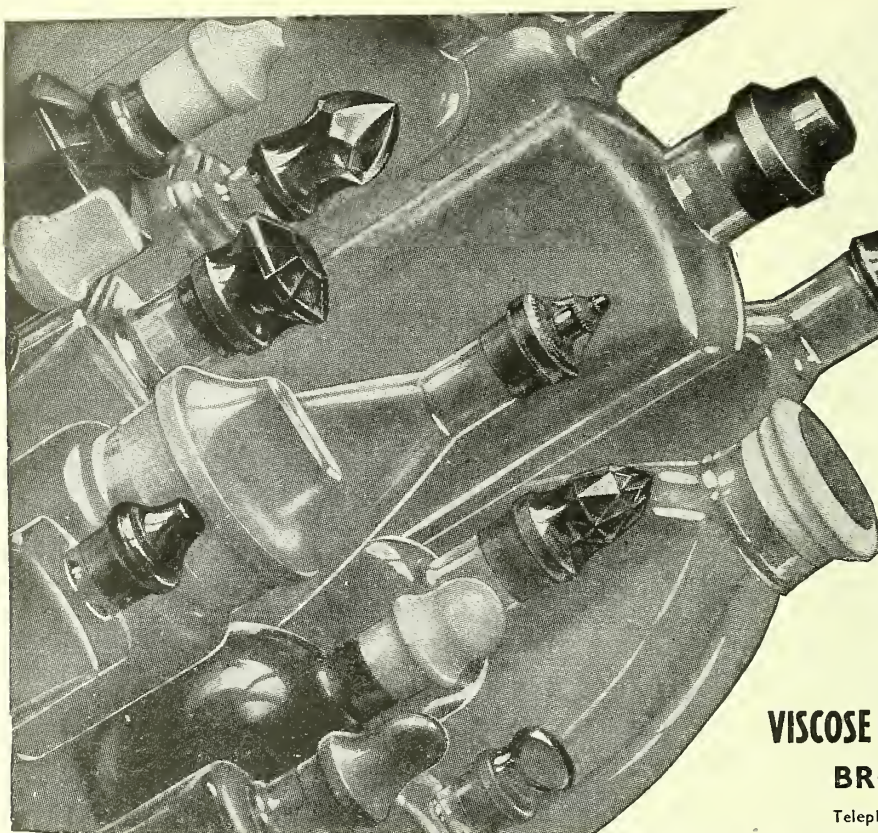
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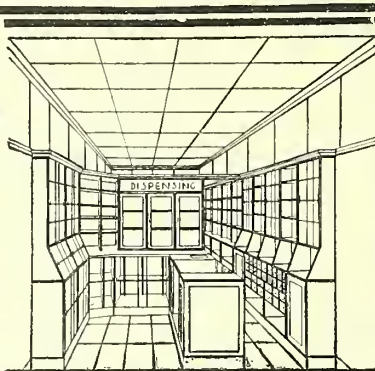
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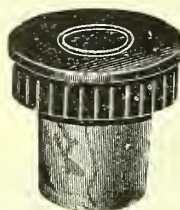
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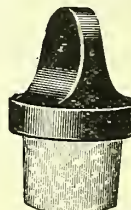


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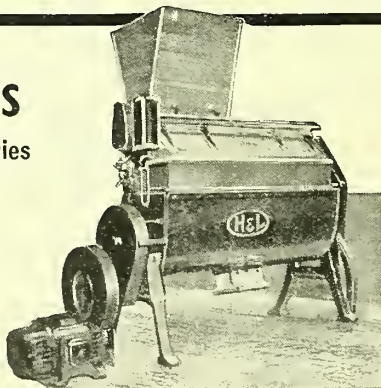
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No proprietary right is claimed in the method of manufacture or the formula.



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BONUS ON 5's & 10's ...	One gross order ...	Bonus 1 dozen packets
	Half gross order ...	Bonus 1/2 dozen packets
Half gross of either size is the minimum order accepted for bonus purposes.		
BONUS ON 27's ...	One gross order ...	Bonus 2 dozen packets
	Half gross order ...	Bonus 1 dozen packets
	Quarter gross order...	Bonus 1/2 dozen packets

Quarter gross is the minimum quantity. **NO BONUS ON 60's.**

BONUS CONDITIONS.—The only conditions made are that the Chemist who buys on these terms undertakes to show 'ASPRO' advertising matter in his shop window for 14 days and sell at advertised prices. Acceptance of Bonus is considered acceptance of conditions regarding display and selling prices.

The CHEMIST AND DRUGGIST SUPPLEMENT

This Supplement is Inserted in every copy of The Chemist & Druggist

28 ESSEX STREET, LONDON, W.C. 2

SEPT. 24,
1938

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Advertisements for this Supplement can be accepted up to **FIRST POST THURSDAY MORNING** of week of issue. Advertisements received later will be inserted the following week.

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2.—**FINSBURY PARK (NEAR)**.—General Retail Business with excellent Panel; established 1870; turnover last year £1,619; net profit approaches £400 per annum; certified figures; heavy stock; excellent living accommodation; rent only £70 per annum; vendor buying another business; would accept valuation terms; total price about £750.

3.—**WANSTEAD (NEAR)**.—Middle-class Business in main road; takings last year £2,344; beautifully-fitted pharmacy; modern living accommodation; offers invited; genuine reason for sale; price for goodwill and valuable lease about £200; stock and fixtures at valuation; stock about £700.

4.—**STROUD GREEN (DEATH VACANCY)**.—Much-neglected General Retail Business; takings about £16 per week, have been £40 per week; good profits; stock and fixtures worth about £373; living accommodation; low rental; inclusive price £450.

5.—**EAST LONDON**.—Old-established Business for sale owing to ill-health and retirement; in present hands 28 years; takings last year £2,250; Panel cheque averages about £36 per month; stock worth at least £500; fixtures and fittings over £300; living accommodation; inclusive purchase price required £1,000.

6.—**HARROW**.—Mrs. Breingan is desirous of disposing of her late husband's business forthwith; turnover average over £40 per week under management; Arden Agency; stock and fixtures worth about £1,000; no reasonable offer refused; two flats over.

7.—**LONDON, E.C. (NEAR LAW COURTS)**.—City Business for sale; takings last year £2,125; net profit £320; attractive shop; long lease; reasonable rental; inclusive purchase price required £650, or valuation terms entertained.

8.—**ANERLEY (NEAR) (RETIREMENT VACANCY)**.—Turnover £1,100; gross profit £375; scope; excellent house; price £600 all-at.

9.—**PURLEY (NEAR)**.—Cash Retail Business in main road position; turnover this year will be about £1,100; net profit £250; modern double-fronted lock-up shop; rent £85 per annum; sublet 37s. per week; long lease; terms £100 plus valuation of stock and fittings; about £600 in all.

10.—**CLAPHAM (NEAR)**.—Branch Business for sale owing to ill-health; increasing turnover, nearly £1,800 last year; gross profit £742; stock £500; very valuable fixtures; attractive new double shop front; inclusive purchase price asked £800, of which sum £250 will be accepted as an initial instalment.

11.—**HACKNEY**.—Middle- and Working-class Cash Retail Business; takings present rate, about £28 per week; good profits; stock worth about £600 can be reduced to suit purchaser; excellent house over; no reasonable offer refused; **part payment terms entertained.**

12.—**EARLSFIELD**.—Main-road General Retail Business run under management; takings last year £1,382; stock worth £600, can be reduced to suit purchaser; nice living accommodation; rent £110 per annum;

very reasonable purchase price; **part payment terms entertained**
No sum is being asked for the goodwill.

13.—**NORWOOD**.—Old-established Cash Retail Business, takings last year £1,260; net profit £350; good living accommodation; excellent stock and fixtures; inclusive purchase price required £775; management with view to succession considered; £50 down.

14.—**NOTTINGHAMSHIRE**.—Middle-class Business for disposal together with valuable freehold; increasing turnover, last year being nearly £1,500; excellent profits, stock and fixtures worth £800; splendid living accommodation; garden 40 ft. by 40 ft.; offers invited; full details upon application.

15.—**WILTSHIRE**.—Old-established and Progressive Business; turnover about £3,000; net profit including important subsidiary about £800 per annum; imposing Pharmacy; new lease will be granted; valuation terms entertained.

16.—**SOUTH WALES**.—Middle-class General Retail Business; turnover £2,800; excellent profits; valuable stock and fixtures; good living accommodation; leasehold premises; ground rent under £2 per annum; purchase price to include leasehold premises, goodwill, stock and fixtures, £2,000.

17.—**RAINHAM, ESSEX (RETIREMENT VACANCY)**.—Well-established Business; present turnover small but possibilities exist; nice living accommodation; excellent garden; price required for the business £175 all at; Vendors desire to sell property, but would consider granting a lease.

18.—**PLYMOUTH**.—Old-established Good-class Family Retail Business; returns exceed £1,300; good profits; large shop; well stocked; new lease will be granted; price £650.

19.—**CHESHIRE**.—Family Retail Business for sale owing to retirement; takings £12 per week; scope; rent 15s. per week; inclusive purchase price £250, which is less than the value of the stock and the fixtures.

20.—**CORNISH RIVIERA**.—Drug and Photographic Store with small seasonal Branches for disposal; excellent profits; total turnover approximately £3,000 per annum; approximate purchase price required £2,750, which figure includes stock value £1,500.

21.—**HULL**.—General Retail Business; takings exceed £1,400 per annum; good Panel connexion; very good stock; inclusive purchase price required £250, or near offer; bargain.

22.—**WORCESTERSHIRE**.—Ill-health necessitates the immediate disposal of a small Retail Business with an increasing turnover; takings last year £600; profit 27 per cent.; stock £150; nice living accommodation; rent £39 per annum; inclusive purchase price £250, or near offer.

23.—**ST. LEONARDS (RETIREMENT VACANCY)**.—Good-class Business; takings approximately £1,850 per annum under management; net profit to managing proprietor over £450 per annum; excellent living accommodation; inclusive purchase price about £1,000; scope; inspected.

24.—**HAMPSTEAD**.—Wholesale Developing and Printing Business for sale; net profit about £5 per week throughout the year; takings about £600; inclusive purchase price £250.

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(C1) **SUSSEX (RETIREMENT VACANCY).**—Old-established good-class business, with turnover approximately £4,000 per annum; in present hands over 30 years; net earning capacity £750/£800, and the all-in purchase price will approximate £2,750; long lease will be granted at reasonable rental; please supply bankers' references.

(C2) **KENSINGTON (NEAR).**—Good-class business with excellent scope; turnover now averaging at the rate of £2,000-£2,500 per annum; net charge for rent and rates approximately £55; stock and fixtures estimated at £1,100; price all at £1,750, or near offer.

(C3) **BEDFORDSHIRE TOWN.**—Good profit-earning business, well situated, and possessing scope for increase; turnover for last financial year £2,123; net profit £503; large panel; living accommodation; reasonable rental; price £1,200 or near offer.

(C4) **SUSSEX (COUNTRY MARKET TOWN).**—Good profit-earning business with genuine scope for increase; turnover for last financial year £2,575; gross profit £973; lock-up shop, occupying corner position; rent £65 inclusive; price all at £1,700, or very near offer.

(C5) **PRESTON.**—£400 or near offer will purchase growing business with exceptional potentialities; should be capable of an early £2,000 per annum turnover; rent £52, including living accommodation; premises well situated.

(C6) **STREATHAM (NEAR).**—Family business, situated in populous working-class district; at present being conducted as a branch and well capable of increase; turnover for 1937-38, £1,190; rent £80; price all at £500, 50 per cent. of which could remain.

(C7) **WILTSHIRE (RETIREMENT VACANCY).**—Village business with good living accommodation; present returns small, but capable of substantial increase; very low overheads; price all at £450, being estimated value of stock and fixtures; part might remain, and any reasonable offer or suggestion will be entertained.

(C8) **ILFORD.**—Branch business (lock-up); no opposition; turnover £1,200, with scope for early increase to £2,000; price all at £350, being considerably less than estimated value of stock and fixtures.

(C9) **DERBYSHIRE.**—Drug store with increasing turnover; now averaging at the rate of approximately £1,400 p.a.; capable of substantial increase under qualified proprietorship; purchase price £500, representing value of stock and fixtures only.

(C10) **HASTINGS.**—Old-established with living accommodation; turnover approximately £1,500 per annum; rent £85; reasonable purchase price (by negotiation).

(C11) **KINGSTON-ON-THAMES.**—Very attractive and well-fitted Pharmacy, with good flat above, situated in semi-main shopping street;

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(C12) **LEICESTER.**—Suburban business consisting of Pharmacy and General Store, with Post Office; present pharmacy turnover £22 weekly, with N.H.I. approximately 350 monthly; energetic proprietor could increase; equitable leases of two premises with living accommodation could be arranged; total ingoing, including stocks and fittings at valuation, approximately £500. Enquiries to Walsall office.

(C13) **LEICESTER (CITY).**—Family business in thickly populated area; N.H.I. approximately 5,000 per annum; full wine licence; present turnover £29 weekly; rent £80; living accommodation; stock and fittings at valuation, approximately £750, plus moderate goodwill to be agreed. Enquiries to Walsall office.

(C14) **LEICESTERSHIRE.**—Good family Pharmacy and Optical business; Company opposition only; present turnover £24 weekly; N.H.I. 200 scripts monthly; Optical connection; good scope for increase by Chemist-Optician; rent £100; stock and fittings approximately £700 at valuation, plus moderate goodwill. Enquiries to Walsall office.

(C15) **CLAPHAM (NEAR).**—Attractive well-fitted Pharmacy, with genuine scope for increase; turnover upwards of £1,500 per annum; gross profit about 35 per cent.; living accommodation, which has recently been redecorated; price £850, including stock (£450-£500), and fixtures (about £200); reasonable offer considered.

(C16) **MIDDLESEX.**—Business established three years; returns now £1,712, and increasing at the rate of £15 per month; situated in rapidly growing district; modern premises with good living accommodation; for a quick sale £1,000 all at will be accepted.

(C17) **FINCHLEY.**—Attractive modern Pharmacy occupying main road position; turnover nearly £1,700 per annum; genuine scope; modern flat; no goodwill asked.

(C18) **UXBRIDGE (NEAR).**—Old-established family business situated in growing and improving district; turnover for 1937-38 financial year, £2,139; gross profit £804; rent £65; lease nearly 21 years to run; to an owner-proprietor the business would at present show a net profit of £500-£550 per annum; price approximately £1,500 all-at.

(C19) **FINCHLEY (NEAR).**—Good-class business established over 30 years; turnover approximately £2,700 per annum; gross profit about 41 per cent.; net rental £110 only; contemplated alterations in the near vicinity should benefit the business considerably when completed; genuine reason for selling; price £1,850 all-at.

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3.—**HERTS.**—Good-class Business in busy town; main road position; returns £1,400; scope for increase; modern Pharmacy, fully stocked; price £925 or near offer.

4.—**GLOS (MARKET TOWN).**—Well-established Light Retail; returns £1,100, under elderly owner; rent £60; good house and garden. Price £200, plus valuation of stock and fixtures.

5.—**DAGENHAM (near).**—Very profitable Cash Retail, with good panel; returns £1,900 under manager; scope for increase; good house, garden and garage; price £800 or valuation terms.

6.—**CHESHIRE.**—Light cash retail, in market town; returns over £1,600; net profit £350; urgent private reasons necessitate quick sale; price £700; no reasonable offer refused.

7.—**SOUTH WALES (DEATH VACANCY).**—Medium-class business, now run as Drug Store; returns £940; population 15,000, one other Chemist; price £300 to close estate; only requires seeing.

8.—**EDGWARE (NEAR).**—Well-established good-class business in prominent position; returns £2,624, books audited; attractive Pharmacy with flat over; price £1,500 or £250 plus stock and fixtures at valuation.

9.—**LONDON, S.W. (Few miles out).**—Good middle-class business; returns over £1,000; net profit £275-£300; nice house and shop, genuine reasons for selling; price £575.

10.—**NORTH LONDON.**—Genuine Cash Drug Store; under female management; turnover about £800; fine chance for Chemist; good stock; price £275 or offer.

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NORWOOD, £110, including excellent stock and fittings; exceptional bargain for young Qualified Chemist; old-established Pharmacy, now under Unqualified Management; no opposition; main road; large residential neighbourhood; Kodak and Selo Agency; rent only £46 per annum; lease 12 years; double-fronted shop, 8 rooms, bath, etc. Owner retiring, old age. 46/14, Office of this Paper.

SOUTH-WEST LONDON.—Recently-established Lock-up Pharmacy in select suburb; double-fronted, well stocked and beautifully fitted; lease of 18 years to run at a rental of £85 per annum; rates £29 7s.; part let off to Hairdresser at a flat rate of £1 10s and commission on sales amounting to average 7s. per week, leaving approximately 3s. weekly for rates and taxes. Stock about £250; fixtures and fittings cost £260; offers invited, as quick sale desired. Accountant's figures available; excellent reasons for disposal. Apply for further particulars and order to view to 334/219, Office of this Paper.

SURBITON.—General retail business for quick sale; good position in shopping district; lease 10 years to run, rent £120 per annum; one flat sublet 15s. per week and one at present empty; stock cost £250; fixtures and fittings approximately £150; returns average £20; could be considerably increased. For further particulars and order to view, apply 334/220, Office of this Paper.

WEST MIDLANDS.—A small, old-established mixed Retail business, with house, gardens and orchard, etc., for disposal in a lovely agricultural district; would suit anyone used to the country, with a knowledge of Cattle Medicines, etc.; satisfactory reasons for disposal. 45/3, Office of this Paper.

DRUG STORE, situated in populous working-class district; flats housing 1,500 almost ready for occupation nearby; neglected owing to illness; valuation of stock accepted for quick sale; approximately £100. E. Breen, 94 Torriano Avenue, Kentish Town, N.W.5.

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ROMFORD.—Fine opening for Chemist; monopoly granted; no other Chemist for a considerable distance; moderate rent, with flat or house if preferred; main-road position and central for four new estates. Apply, 26 Western Road, Romford. Telephone 826.

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MULTIPLE POSITION.—First-class Premises to be Let, where excellent Medical connexions introduced. Exceptional opportunity; modern Shop with maisonnette over. Communications from substantial would-be tenants invited.

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10 CARLOS PLACE, W.1.

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ADJOINING Fifty Shilling Tailors, Tesco Stores, etc., several units available in modern parade; each comprising shop and upper part, about 18 ft. by 40 ft.; reasonable rentals required.

PARTICULARLY SUITABLE FOR CHEMIST, etc.

For full particulars apply

HILLIER, PARKER, MAY & ROWDEN,

27 Maddox Street, W.1. Tele.: Mayfair 7666.

A DEFINITE OPPORTUNITY.—Facilities will be given to the right man to establish himself as a Chemist in a fine trading position, N.W. London; thickly surrounded by high-class flats and residences, and no competition; an opportunity is here presented to build up a substantial business. Apply Director, 14 Stockleigh Hall, Prince Albert Road, N.W.8.

BUSY MAIN ROAD POSITION

COMMODIOUS Shop Premises, situate prominent corner position; densely-populated district of Hampstead, adjoining Multiple Stores. Full particulars, apply:—

HERRING, SON & DAW,

100c, QUEEN VICTORIA STREET, E.C.4.

TEL.: CITY 7068.

CORNER Shop, one of four; main road; sound trading position, growing area; with or without living accommodation; upstairs easily converted into self-contained flat; garage, hold two cars; shop, house, garage, 35s. weekly, rates 9s. 3d.; shop only £1, rates 3s. 8d.; will grant long lease. Mrs. Walton, 82 Amptill Road, Bedford.

TO LET.—Bradford, 362 Leeds Road, shop and basement, Wine and Spirit Licence; occupied nearly 50 years by Chemist. 334/223, Office of this Paper.

BUSINESS OPPORTUNITIES

GENTLEMEN invited to interest themselves in private syndicate to commercialise Spring Water containing Calcium in solution hitherto supplied on prescription. For particulars, please address Davey & Co., 41 Cheapside, E.C.2.

TO Chemists and Hairdressers Distributors: Manufacturer of unique Patent Line of Hygienic Rubber Goods, with Proprietary name, wishes to contact first-class Distributors. 46/20, Office of this Paper.

AGENCIES**6s. for 36 words or less; 1d. for every additional word, prepaid. (Box No., 1s. extra.)**

AGENCIES FOR AUSTRALIA.—A new Wholesale Drug Company, possessing the personnel to pursue a vigorous policy in the introduction of B.P. Drugs and Chemicals, as well as other Kindred Lines, is prepared to negotiate with Manufacturers through our London Representative. Reply in first instance to P.C.B. 295/15, Office of this Paper, and arrange interview.

GENTLEMAN with good connexion with Chemists in West of England, South Wales and part of Midlands, requires "Good and Profitable Agencies." Only sound and genuine firms entertained. 45/20, Office of this Paper.

OPPORTUNITY

FIRST-CLASS AGENTS with connexion, Sales force, and office facilities, OPERATING IN THE MIDLANDS, seek on good commission terms, SOUND XMAS LINES INCLUDING NOVELTIES AND JOB STOCK, suitable for Chemists and allied trades. Reply, 44/3, Office of this Paper.

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CORRESPONDENCE and Personal Tuition in Optics and Sight Testing.

C. V. BOLTON, F.S.M.C., 49A LEIGH ROAD, LEIGH, LANCs. TEL.: 527.

COMPANY REGISTRATION

LIMITED COMPANY REGISTRATION

IF you think like I do, and I am a director of three Chemist companies, that this form of trading is best by far, particularly in the uncertain times we live in, drop me a line, mentioning size private company you might be interested in, and I will send you my free leaflet. Auditing for Chemists a speciality. Low fees.

A. B. SLACK,

721 PRINCESS ROAD, MANCHESTER, 20.

APPOINTMENTS

OXFORD COUNTY & CITY MENTAL HOSPITAL, LITTLEMORE, NR. OXFORD

DISPENSER (male) required for full-time duty at the above Hospital. Applicants must be members of the Pharmaceutical Society. A technical knowledge of X-ray Plant will be considered a recommendation. Salary £200 per annum, rising £5 annually to £250, together with unfurnished house, valued for superannuation purposes at £32 10s. per annum. The appointment is subject to the provisions of the Asylums Officers Superannuation Act, 1909. The successful candidate will be required to pass a medical examination. Applications, together with copies of not more than two recent testimonials, to be in the hands of the Medical Superintendent not later than Saturday, October 8, 1938.

CROWN AGENTS FOR THE COLONIES

COLONIAL GOVERNMENT APPOINTMENTS

APPPLICATIONS from Qualified Candidates are invited for the following post:—

ASSISTANT PHARMACIST required by the Government of Tanganyika Territory for the Medical Department for one year in the first instance. Salary, £372—£18—£480 a year. The post is not pensionable, but the introduction of a Provident Fund Scheme is under consideration. Free passage and leave on full salary. Candidates, age 25-35, must possess the minor qualification as Chemist and Druggist of the Pharmaceutical Society. Experience in a large teaching hospital or the wholesale trade, or service in the Royal Army Medical Corps is desirable, though not essential. A practical knowledge of surgical instruments, hospital equipment and of stores management are also desirable.

Apply at once by letter, stating age, whether married or single, and full particulars of qualifications and experience, and mentioning this paper, to the CROWN AGENTS FOR THE COLONIES, 4 MILLBANK, LONDON, S.W.1, quoting M/6489.

APPPLICATIONS are invited from candidates between 21 and 28 years of age to fill a vacancy for a Male Pharmacist in the Royal Naval Hospitals. Qualified men with experience of Hospital Duties will be preferred. Every candidate must be a natural-born British subject, the son of a person who is, or was at the time of death, a British subject. The salary is £190, rising by £12 annually to £274 per annum. Unmarried quarters are provided or an allowance of £49 per annum paid in lieu. The posts are pensionable under the Superannuation Acts. Pharmacists are required to serve in any of the Royal Naval Hospitals at home or abroad; those serving abroad are granted a Colonial allowance to meet the additional cost of living. Further particulars and forms of application may be obtained from the Medical Director-General of the Navy, Admiralty, S.W.1. Applications on the prescribed forms, accompanied by copies of testimonials, must be received not later than October 1, 1938.

SITUATIONS OPEN

RETAIL (HOME)

6s. for 40 words or less; 1d. for every additional word, prepaid. (Box No., 1s. extra.)

AYLESBURY.—Young Lady Assistant wanted for Dispensing and Light Counter in good-class Family business; October 17 or 24. Full particulars, photo or "snap" desirable (to be returned), T. M. Ashford, Chemist, 16 Market Square, Aylesbury.

BRIGHTON.—Competent Lady Assistant required; all usual duties, Dispensing, Counter, etc.; good salary offered; suit reliable Lady seeking permanency. All particulars in first letter; replies to 47/2, Office of this Paper.

LONDON.—Wanted immediately, Junior (aged about 20) for medium-class business; must have knowledge of good-class Toilets and Dispensing. Apply, giving usual particulars, including salary required and date when free, to F. G. Wells, 47 Greenford Avenue, Hanwell, W.7.

LONDON, E.—Qualified Assistant (Lady or Gentleman) required early November; permanency; N.H.I. Dispensing and Counter. State age, experience, references and salary expected. 45/49, Office of this Paper.

LONDON, N.1.—Qualified Assistant (age about 30), one used to Management required for middle-class Retail Pharmacy; good N.H.I. Dispenser; permanency. Interview or write Brown, 51 St. Peter's Street, N.1. Tel.: Canonbury 2939.

LONDON, W.1.—Qualified Junior Assistant, also Unqualified Assistant, required for high-class business; excellent opportunity for gaining experience, with good prospects. Write full particulars, age, height, experience and salary expected, 334/218, Office of this Paper.

MAIDSTONE.—Unqualified Assistant required at once, permanency (age from 23-30); brisk middle-class business, with N.H.I. Dispensing. State salary required and usual particulars to E. Green, M.P.S., Wells & Smith, Ltd., 36 Stone Street.

MANCHESTER.—Unqualified Assistant required (age about 22 years); accurate Dispenser; opportunity to gain experience. Write 334/225, Office of this Paper.

MITCHAM, SURREY.—J. K. Harvey, Pharmacist, requires young Qualified Assistant for October 3; permanency; excellent opportunity for recently Qualified wishing to gain business experience. Full particulars to J. K. Harvey, Pharmacist, Mitcham, Surrey.

WEST END.—Experienced Unqualified Chemist-Optician required; mostly for eye work. Write age, experience, religion and salary required. 45/42, Office of this Paper.

WEST END.—Qualified Assistant wanted; permanency; good Dispenser, Salesman and Window-dresser. Apply by letter first, giving full particulars, age, experience, salary required, etc., to Hayman & Freeman, 93 Piccadilly, W.1.

WORTHING.—Hutchinson & Phillips require Unqualified Assistant; knowledge of high-class Toilets an advantage. Apply, stating usual particulars and enclose photograph if possible, to Hutchinson & Phillips, Ltd., Chemists, 28 Warwick Street, Worthing. Tel.: 2669.

AT ONCE.—Male Junior or Improver, must have good references and be quick at Counter; young man preferred who is not going to qualify; wages moderate. Apply, 9 Thurlstone Road, West Norwood, S.E.27, or phone Gipsy Hill 0620.

CHEMIST Assistant, Unqualified, required for Central Pharmacy; must be first-class Salesman and accustomed to busy trade. Application, giving fullest particulars of training and experience in Pharmacy, Photography and Surgical Fitting, etc., along with age, wages required and references, to be addressed to the Secretary, Leeds Industrial Co-operative Society, Ltd., 10 Albion Street, Leeds, endorsed "Pharmacy."

DRUG DEPARTMENT.—Saleswoman (aged about 25) wanted, previous Drug Counter experience essential; knowledge of Dispensing an advantage. Write, stating age, experience and salary required, to Staff Supervisor, Welwyn Stores (1929), Ltd., Welwyn Garden City, Herts.

IMPROVER wanted, October 17; show ability at Counter; industrious worker; knowledge of Window-dressing. Applications unanswered respectfully declined. Apply, full particulars, reference, age, salary outdoors, Thomas, Chemist, Faversham, Kent.

JUNIOR Assistant, male, wanted in one month; excellent high-class experience. Apply, giving full particulars of training and experience, with references, and state salary required, 45/46, Office of this Paper.

JUNIOR Assistant, Unqualified, required, male or female; must be good Window-dresser, with knowledge of Pharmacy. Apply, Early Bunn, Ltd., 95 High Street, Chelmsford, Essex.

JUNIOR Unqualified Assistant for small country town branch. near London; must be active, industrious and have had good Dispensing and Counter experience. State in first letter age, experience, salary required, references, date when free, and enclose photo to Relph, Chemist, Harlow.

JUNIOR Unqualified Assistant required for industrial business near Nottingham; previous Dispensing experience essential. Send full particulars to 334/226, Office of this Paper.

LADY Assistant for Optics, Hendon district; Reception, Clerical, Repairs and Fitting; permanency; knowledge of Photography an advantage. State age, salary and experience, 45/30, Office of this Paper.

LADY Assistant required for good-class business; must be a competent Dispenser; no Sunday duty. 45/1, Office of this Paper.

MANAGER wanted, view early (or immediate) succession of unopposed business; small at present; prospects; healthy residential position East Coast; accommodation; Selo and Kodak agencies; cash required, £165 all at. 46/16, Office of this Paper.

M.P.S.—Qualified Junior (Lady or Gentleman) to commence immediately; permanency; 5½-day week; commencing salary, £4; no N.H.I. Dispensing; references required. Phone SHE 3505 for appointment, or write Bush Stores (Chemists), Co., Ltd., 174 Railway Approach, London, W.12.

PHARMACY.—Qualified Chemist required (male or female), Dispense and Counter. State age, experience and salary required, with copy testimonials only, first letter. Abersychan and Pontypool Co-operative Society, Ltd., Hanbury Road, Pontypool, Mon.

QUALIFIED Assistant required for middle-class business with N.H.I. Dispensing, London, E.2. Give full particulars of experience, names of references, when disengaged, age and salary required. Apply (letter only), "Chemist," 37 Sydnor Road, London, N.16.

QUALIFIED Assistant required, Provincial town; General Retail, Dispensing and Photographic in high-class Pharmacy. Apply, giving age, height, details of experience, photo (if available) and salary required, to 46/25, Office of this Paper.

QUALIFIED Chemist-Optician required for branch Pharmacy; permanency. Phone Hendon 6637.

QUALIFIED Lady or Gentleman, for Cash and N.H.I. business; good Counter manner and Window-dresser essential. Usual particulars and when disengaged. Mitchell, Chemist, 6 Lewisham Road, Lewisham.

QUALIFIED Man wanted to manage small business near City. East; all-round, capable and good Dispenser (N.H.I.); possibly with view to succession or partnership, if desired, on easy and favourable terms. Write first with particulars, Chemist, 88 Eden Road, Walthamstow.

QUALIFIED, permanency, Sussex, near Brighton; Lady or Gentleman required, October 2. Please state salary required and when available for interview, 45/22, Office of this Paper.

UNQUALIFIED Assistant (either sex), end of September; used to good-class trade and Dispensing; no Sunday duty. Call or write, full particulars, wage, etc., photo if possible, with stamp for return, Bennett & Morris, Beckenham Road, West Wickham, Kent.

UNQUALIFIED Assistant or Junior Assistant (male) wanted immediately; used to quick N.H.I. Apply personally or in writing to O. Tobin, Ltd., 49 Harford Street, Mile End, E.1.

UNQUALIFIED Assistant required (either male or female) Junior preferred. Apply, giving all particulars, to J. J. Thomas & Son, 54 Drake Street, Rochdale.

UNQUALIFIED Lady Assistant wanted for Dispensing and Counter; permanency. Send details of experience and salary required to Haydon, Chemist, 25 Mount Pleasant Road, Hastings.

UNQUALIFIED Lady Assistant wanted immediately; good Dispenser and Counter hand essential. Call or write (full particulars first letter), to H. R. Martin, Pharmaceutical Chemist, 283 South Norwood Hill, S.E.25.

UNQUALIFIED male Assistant, at once, for N.W. London; Counter, Window-dressing and Photographic; knowledge of Optics an advantage; permanency for suitable man. Experience, age and salary to 45/300, Office of this Paper.

UNQUALIFIED Young Assistant required (about October 17); good-class Dispensing and Retail experience. Full particulars of experience and salary required to Ashworth, Church Street, Weybridge, Surrey.

UNREGISTERED Assistant (either sex) wanted at once for Dispensing and Counter; knowledge of Photographic and Toilet sales; good-class business; no extra duties; progressive salary. Give full particulars and send photo, in first letter, F. R. Burton, Chemist, Wellington, Shropshire.

WANTED, Junior Assistant, Unqualified, for medium-class business. Write, stating age, height, salary required, etc., to J. M. Palmer 206 Mill Road, Cambridge.

WANTED, Junior or Improver, with Dispensing experience, for good-class Dispensing business. Please give usual particulars, state salary required, and enclose photo if convenient. Jeffrey & Son, Pittville, Cheltenham.

WANTED, Qualified Chemist to Manage small lock-up shop about to be opened on Council Estate, Eltham, S.E.9; good Dispenser and Sales hand essential. Write, stating lowest commencing salary, which will be reviewed in six months, Moore, 154 Middle Park Avenue, Eltham, S.E.9.

WANTED, Young Junior or Improver in October, accustomed to Counter and N.H.I. Dispensing. Apply, stating age, usual particulars and salary required (outdoors), H. P. Turner & Son, Chemists, Lydney, Glos.

WANTED.—Young Unqualified Assistant, Gentleman or Lady. in light Retail business near London; no holiday or Sunday duty. State age, experience, salary required; photo, to be returned, 45/9, Office of this Paper.

YOUNG Lady, Qualification not essential, for suburban Pharmacy; must have good personality and experienced high-class Toilets and Counter. Give full particulars, salary required, and when free, Allen Jones, Chemist, Great Crosby, Liverpool 23.

YOUNG Qualified man to manage small branch; commence October 3; salary Four Guineas and commission on increasing turnover. Also young Junior or Improver. Both cases call or particulars, references, photo, to Elders, 76A Dallow Road, Luton, Beds.

VACANCIES FOR LOCUMS

LONDON, W.C.1.—Locum, male or female, for two weeks, September 26; Qualification not necessary; must be careful Dispenser; also evening Dispenser, 6 to 8.30, Saturdays 9. "E.", 75 Hornsey Rise, N.19. Tel.: Terminus 3949.

WANTED.—Unqualified Assistant, as Locum, for not less than three weeks from October 3; no Sunday or half-day duty. State usual particulars and salary asked. Renoufs, Chemists, 45 Don Street, Jersey, Channel Islands.

WHOLESALE

ASSISTANT Area Sales Manager required to sell high-class Perfumery and Beauty Preparations and "Own Name" range, to Stores and Salons; salary and commission. Write, stating previous experience and territory, to 334/224, Office of this Paper.

GELATIN CAPSULE Manufacturers at Slough require Qualified Chemist; duties would include supervision of Mixing and Testing of Materials. Applicants should give details of education and experience in addition to personal details and salary expected. 41/2, Office of this Paper.

MEDICAL Representative required for London Manufacturing Chemists, to visit Doctors; experience essential; good personality, with ability to sell. Write full details, age and salary required, to 334/222, Office of this Paper.

MEDICAL Representatives with Pharmaceutical Qualifications required; previous experience desirable. Write, giving full particulars of previous employment, Wm. R. Warner & Co., Ltd., Power Road, Chiswick, London, W.4.

QUALIFIED Chemist required, London Manufacturing Chemists; must be experienced making Galenicals and Hypodermic Injections; able to control staff; methodical worker. State full experience, age and salary required to 334/221, Office of this Paper.

REPRESENTATIVE required for calling on Vets. in Lancashire and Yorkshire; must have selling experience. Apply 334/216, Office of this Paper.

REPRESENTATIVE required for calling on Vets. in Scotland; must have selling experience. Apply, 334/217, Office of this Paper.

REPRESENTATIVES (Part-time) required to work Chemist Sundries; good money can be earned by men with connexions in the following counties: Oxford, Bucks and Beds; Essex, Suffolk and Norfolk; Kent, Surrey, Sussex, London, Liverpool, Northumberland and Durham, Northern Ireland. Write 44/10, Office of this Paper.

REPRESENTATIVES, to carry additional line; 15 per cent. on orders and repeats; all territories. Write for interview, P.C.B. 295/2, Office of this Paper.

SALES REPRESENTATIVE required for disposal of Veterinary lines to Farmers. Apply, 32/8, Office of this Paper.

SALES REPRESENTATIVE required immediately by well-known Cosmetic House, London area; first-class connexion Retail Chemists and Hairdressers most essential; unique opportunity; salary, expenses and commission. Write 43/80, Office of this Paper.

SALES REPRESENTATIVE with car, residing Birmingham, wanted immediately, Birmingham area, by well-known Cosmetic House; good connexion Retail Chemists and Hairdressers absolutely essential; salary, commission and car allowance. Full particulars to 43/8, Office of this Paper.

ALL MANAGERS AND ASSISTANTS SHOULD JOIN AT ONCE

The National Assoc. of Chemists' Assistants

INCORPORATED IN THE CHEMICAL WORKERS' UNION

BENEFITS: Trade Protection, Legal Aid, Unemployment Benefit, Free Use of Employment Bureau

WRITE FOR PARTICULARS: Arthur J. Gillian, Gen. Sec.,
149 Newington Causeway, London, S.E.1

SITUATIONS WANTED

RETAIL (HOME)

2s. for 18 words or less; 1d. for every additional word, prepaid. (Box No., 1s. extra.)

A.A.—Locum or Permanency; Qualified; 8 years' varied experience; highly recommended; disengaged October 10. Pharmacist, 16 Park View Avenue, Stump Cross, Halifax.

ADVERTISER (34), extensive experience in all branches of Pharmacy, including Veterinary, Buying, etc.; as Assistant and Manager (although Unqualified) in London and Provinces; desirous of change; post that offers scope. 46/4, Office of this Paper.

ASSISTANT, Unqualified, desires change; 10 years' all-round experience; 3 years present situation; married. 45/33, Office of this Paper.

ASSISTANT, Unqualified (22), 5½ years' experience; accurate Dispenser, good Window-dresser and Counterman. Senson, 86 Matlock Road, E.10.

ASSISTANT, Unqualified (38), City and West End experience, seeks position Birmingham; keen, energetic. Williams, 2 Grosvenor Park, S.E.5.

ASSISTANT (37), gentleman, Unqualified; competent; City, West End; experienced Dispenser; Windows and Counter; Locum or permanency; willing worker. Hubert, 95 Cambridge Street, S.W.1.

ASSISTANT (36), Unqualified, desires post. part or whole time; Counter and Dispensing; knowledge of Sight-testing (N.A.O.). V. R., 93 The Avenue, Highams Park.

BIRMINGHAM.—Lady Assistant, Unqualified, experienced, requires post Dispensing, light Retail business; part-time considered. 45/52, Office of this Paper.

CAPABLE M.P.S., West End, suburban and first-class provincial experience; disengaged end September. "Pharmacist," 52 Central Road, Worcester Park, Surrey.

EXPERIENCED Pharmacist, Manager or Superintendent, suburban or West End; reliable; highest references. "Chemist," 48 St. Dunstan's Road, Baron's Court, W.6.

GIBBS (age 40), Unqualified; Harrogate and London experience; last situation 6 years. 234A Camden Road, London, N.W.1.

IN difficulty or emergency send for Baldwin, c/o 59 Heybridge Avenue, S.W.16; Unqualified; fully experienced; accustomed to management.

LADY Assistant, good Toilet and Drug Counter experience, seeks post; North preferred. 46/2, Office of this Paper.

LADY Dispenser, Book-keeper, Hall, experienced, desires post with Doctor, whole or part-time. Statim, Highfields, Horsham Road, Cranleigh, Surrey.

LADY, Qualified, young, good all-round experience Counter and Dispensing, desires post, London or Surrey. 20 Rushworth Road, Reigate, Surrey.

MANAGER, Qualified, requires permanent post in London area or near; good-class Retail and Dispensing; free October 3. Hyde, 14 Tremlett Grove, N.19.

MANAGER, Qualified (38); good all-round experience; free end of month; interview on Sundays or Wednesdays, p.m.; London or Middlesex. 45/6, Office of this Paper.

M.P.S. (5 ft. 11 in.), desires responsible position as Manager; permanency; experienced West End, Coastal and Provincial; excellent references; free within one week. 45/37, Office of this Paper.

PART-TIME work required in London by Part II student; day or evenings; free October 3. 45/55, Office of this Paper.

PHARMACIST desires part-time Dispensing; Saturday after 3 p.m. and other evenings after 7.30 p.m.; Doctor or Institution; Portsmouth district. 45/15, Office of this Paper.

PHARMACIST, disengaged shortly, offers services as Manager; 20 years' Retail experience. Pharmacist, 58 Coldharbour Lane, S.E.5. Phone BRixton 5695.

PHARMACIST-OPTICIAN, F.S.M.C. (31), thoroughly experienced high-class Pharmaceutical, Photographic, Surgical, Toilet products; Refraction Hospital trained. 45/32, Office of this Paper.

QUALIFIED; disengaged September 30; 20 years' experience (owner of small business); would accept part or full time; moderate salary. Write, Pharmacist, Elton Pharmacy, 23 Constance Street, Silvertown.

QUALIFIED, free September 26, desires post as Manager or Assistant; keen, active, reliable; would consider Locum work; over 20 years' experience. Chemist, 45/48, Office of this Paper.

QUALIFIED Lady Assistant desires permanency; experienced; Doctor or Chemist. 46/7, Office of this Paper.

QUALIFIED Lady, experienced; London preferred, not essential. Full particulars first letter, please, 46/9, Office of this Paper.

QUALIFIED Lady requires post, preferably in busy Dispensing business, but has managed single-handed; 11 years' experience. 44/2, Office of this Paper.

QUALIFIED Lady, tall, considerable experience and well recommended, desires situation, London district; living accommodation acceptable; commencing salary £4 10s., or as Locum £5, 45/25, Office of this Paper.

QUALIFIED Manager, now doing Locum work, seeks post; free next week; over 10 years' varied experience as Manager; well recommended; London or near preferred. 45/7, Office of this Paper.

QUALIFIED Manager (26) desires permanency, London or near; 8 years' experience; high-class Toilets and Dispensing; capable, reliable, excellent references; free October 1. "Chemist," 172 Upper Elmers End Road, Beckenham. Phone 2967.

QUALIFIED requires position as Manager or Locum; free October 6. M.P.S., 5 Clive Terrace, George Street, Manchester, 8. Phone Cheetham 1543.

QUALIFIED, seeks permanency, reliable, experienced as Manager and Relief Manager in London; now doing Locum; free October 3. Chemist, 17 London Road, High Wycombe, Bucks.

QUALIFIED, single (34), desires change; all-round experience, 8 years managing; excellent references; permanency; London or suburbs. 45/36, Office of this Paper.

QUALIFIED (27) requires position, town, country; Hospital and Managing experience; knowledge of Optics; excellent references; free November 7. Aston, "Woodhouse," Coalway, Coleford, Glos.

QUALIFIED (23), seeks progressive post, Assistant or Branch Manager, London or near; all-round experience; keen worker; excellent references. Rains, 16 Combedale Road, Greenwich, S.E.10.

UNQUALIFIED.—Dispensing and Counter; Lancashire or North preferred by experienced Lady. "F.," Homelea, Victoria Avenue, Moss Bank, St. Helens.

UNQUALIFIED (33), all-round experience in Salesmanship, Window-dressing, Dispensing; knowledge of Photographic; desires permanency or temporary position of Assistant; disengaged. 24 The Risings, Walthamstow, E.17.

UNQUALIFIED (32), tall, exemplary character, seeks new post; experienced, General Retail, Photographic, Surgical Appliance fitting. 44/7, Office of this Paper.

£5 + COMMISSION.—Qualified Manager, with wide experience (28), married, requires post, London suburb or S. England. 44/6, Office of this Paper.

LOCUMS SEEKING ENGAGEMENTS

CHEMIST, Locum or Permanency, experienced; recommended; disengaged September 26; London or Provinces. Chemist, 24 Hillside Crescent, South Harrow, Middlesex.

LOCUM, M.P.S. (40), free September 25 to October 1 only; well recommended. Chemist, 35 St. George's Road, S.W.1.

LOCUM, Qualified, good varied experience and references; at liberty October 3. S. T. Hoskins, c/o Mr. Francis, Pharmacist, 32 High Street, Guildford.

LOCUM, Referred Part 2, requires engagement, preferably Scotland or North; free October 3; good experience and references; hard worker. Kennett, 64 Netley Street, Farnborough, Hants.

PHARMACIST (27), single, desires Locum appointments, any district; 3 years' London, West End, experienced all branches. C. Howard, 28 Earlsdon Avenue, Coventry.

QUALIFIED, Locum or Permanency; experienced, conscientious; highly recommended; London preferred; free September 26. Snow, "Brookendon," Lovibond's Avenue, Orpington.

R. G. LAYBOURN, M.P.S., formerly of High Street, Margate, disengaged October 25; Locum or Manager; long experience; capable, energetic; sober and systematic. 129 Bell Road, Sittingbourne.

WHOLESALE

ADVERTISER with 15 years' sound knowledge of Retail pharmacy, desires position as Representative to reputable Wholesale house; Bristol centre preferred; car driver. Stuckey, 87 Cottrell Road, Bristol, 5.

AMBITIOUS Pharmacist (25), now manager, but desiring change, would appreciate opening in Wholesale House; willing to commence at moderate salary; some experience in manufacturing, knowledge of physiology; very keen; good references; car owner. 49 Gurney Road, Shirley, Southampton.

NAMES AND ADDRESSES

When sending advertisements for any of the columns of this Supplement, advertisers—as a guarantee of good faith and not necessarily for publication—should always give their names and addresses. It sometimes occurs that this rule is not adhered to and delay and disappointment ensue. Strict attention to this detail will be appreciated.

CLEAR OUT—your Old or Damaged Stock of Photo Goods.
Why keep them any longer? Turn them into CASH.
I GIVE BEST PRICES for Old Films (damaged, fogged or expired dates); Packet Papers. Cards (any sizes). Old Photo Goods or Cameras. Bromide Papers. Plates (all sizes, all makes). Send any goods in the photo line. I buy all, good or bad. Cash per return. A good price for all Cameras. Send them along.
S. E. HACKETT, 23 July Road, Liverpool

CAPABLE Qualified Gentleman (32), offers services; some travelling experience; personality, appearance, administrative ability; now in retail; resident London. 46/5, Office of this Paper.

COSMETIC Manufacturer seeks situation; accustomed to formulating, control of stock, buying and general factory routine; own formulas if necessary; go anywhere if permanent. 46/6, Office of this Paper.

EXECUTIVE OR OTHER POSITION required by Pharmacist (under 40), with capital; advertiser has spent over 20 years in the Retail, 10 years on his own account; very wide and varied experience and knowledge of other trades; car driver, home and overseas; anxious to be of service to any concern requiring capable person with capital. Reply to 47/1, Office of this Paper.

GENTLEMAN (age 26), well educated, good appearance and address; own car; at present in Retail, desires position as Representative; prepared take reasonable remuneration until abilities proved; unimpeachable references. Duncan, 22 Hamlyn Avenue, Hull.

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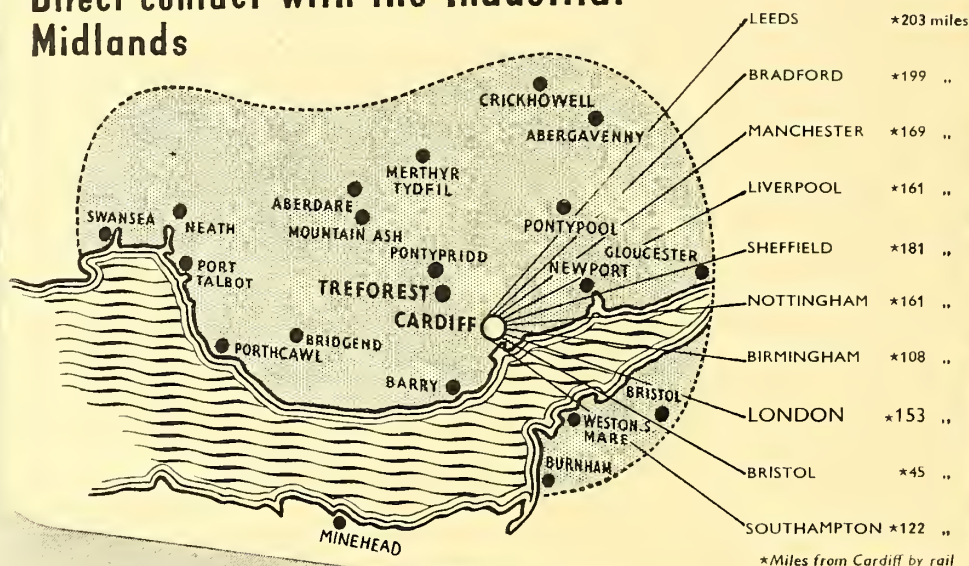
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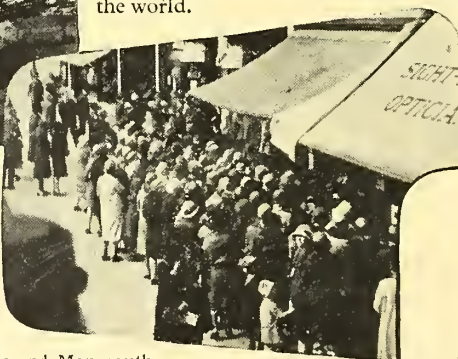
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